

**FEDERAL GRANT
ELECTRONIC COMMERCE COMMITTEE**



**Research Grants EDI Implementation
Volume II**

IMPLEMENTATION CONVENTIONS

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Chapter 1

Introduction

Volume I of this document was written to give both functional and technical analysts within the grants community an understanding of electronic data interchange (EDI), implementation conventions (ICs), and EDI implementation issues. This volume was written to support both agencies awarding grants and organizations receiving federal grants with the testing and implementation of EDI for grants management. The information in this volume ensures that various EDI trading partners in the grants community send and receive EDI transmissions in the same format.

This volume presents each federally approved IC for grant management (as they become available) and specifically provides trading partners with the information necessary to transmit data using EDI. The ICs define the data and the locations of the data in the electronic documents.

GENERAL INFORMATION

This volume is written for the technical user who understands EDI. The chapters that follow this introduction present the 194 Grant or Assistance Application IC and the 850 Purchase Order (Award) IC (with only those segments and data elements needed for the awarding agency and the recipient organization to exchange grant award information).

VOLUME II ORGANIZATION

This volume contains two chapters in addition to this introductory chapter:

- ◆ Chapter 2 194 Grant or Assistance Application Implementation Convention
- ◆ Chapter 3 850 Purchase Order (Award) Implementation Convention.

Additional information is provided after each IC is presented. Chapter 2 provides information about the HL—Hierarchical Level segment and a sample EDI transmission using the 194 Grant or Assistance Application IC as a baseline. Several examples show the use of the HL structure in Table 2 of the 194 Grant or Assistance Application transaction set. Chapter 3 provides a sample EDI transmission using the 850 Purchase Order (Award) IC as a baseline. Both examples show how the ICs were designed to transmit grants data.

Chapter 2

194 Grant or Assistance Application Implementation Convention

IMPLEMENTATION CONVENTION

This chapter contains the 194 Grant or Assistance Application IC (National Institute of Standards and Technology (NIST) Special Publication 881-20¹), which is based on version release 003060 of the X12 standard. Within the IC, separate tables provide programmers with agency-specific usage information. The legend below identifies the letters used in these agency usage tables.

Letter	Usage Explanation
A	As Applicable
N/U	Not Used
M	Mandatory

If there is no entry in the table, the IC notes provide sufficient information. In addition, within the tables there are references to endnotes that provide more detail for agency-specific implementation. The notes are intended to provide further agency-specific clarification.

¹ Posted on the Internet at <http://snad/ncsl.nist.gov/dartg/edi/3060-ic.html>

194 Grant or Assistance Application

Functional Group ID=**GT**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Grant or Assistance Application Transaction Set (194) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by organizations submitting applications for grants, cooperative agreements, and other assistance. These applications will typically include project, budget, personnel, descriptive, and other related data.

Notes:

1. *Organizations use this transaction set to submit a Grant or Assistance Application to a Federal Agency. This application may be in the form of an unsolicited proposal, or a response to a general announcement, a specific agency request, or an annual solicitation.*
2. *Federal Agencies use this transaction set to respond with proposed or approved budgets.*
3. *A single transmission of this transaction set shall be used to submit the application or budget for one project only.*
4. *In this convention, the term grant includes: grant award, research contract, and cooperative agreement.*

Heading:

	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BGN	Beginning Segment	M	1		
	030	DTM	Date/Time Reference	O	>1		
N/U	040	LDT	Lead Time	O	>1		
	050	PWK	Paperwork	O	>1		
			LOOP ID - N9			>1	
	060	N9	Reference Identification	O	1		
N/U	070	L11	Business Instructions	O	>1		
	080	MTX	Text	O	>1		

			LOOP ID - NM1			>1
Must Use	090	NM1	Individual or Organizational Name	O	1	
	100	N2	Additional Name Information	O	2	
	110	N3	Address Information	O	2	
	120	N4	Geographic Location	O	1	
	130	N9	Reference Identification	O	>1	
	140	PER	Administrative Communications Contact	O	>1	

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			>1	
Must Use	010	HL	Hierarchical Level	M	1		
	020	QTY	Quantity	O	>1		
	030	AMT	Monetary Amount	O	>1		
	050	DTM	Date/Time Reference	O	>1		
	060	PAM	Period Amount	O	>1		
	070	HSD	Health Care Services Delivery	O	>1		
	080	NX1	Property or Entity Identification	O	>1		
	090	YNQ	Yes/No Question	O	>1		
			LOOP ID - N9			>1	
	100	N9	Reference Identification	O	1		
	105	L11	Business Instructions	O	>1		
	110	MTX	Text	O	>1		
			LOOP ID - INX			>1	
	120	INX	Index Detail	O	1		
Must Use	130	K3	File Information	M	>1		
			LOOP ID - PO1			>1	
N/U	140	PO1	Baseline Item Data	O	1		
N/U	160	MTX	Text	O	>1		
			LOOP ID - PPL			>1	
	170	PPL	Price Support Data	O	1		
N/U	180	REF	Reference Identification	O	>1		
			LOOP ID - PD			>1	
	190	PD	Pricing Data	O	1		
	200	PDD	Pricing Data Detail	O	>1		

194 Grant or Assistance Application Implementation Convention

			LOOP ID - PL		>1
N/U	210	PL	Proposal Cost Logic	O	1
N/U	220	REF	Reference Identification	O	>1
N/U	230	AMT	Monetary Amount	O	1
N/U	240	PCT	Percent Amounts	O	1
N/U	250	QTY	Quantity	O	1
N/U	260	NTE	Note/Special Instruction	O	>1
			LOOP ID - PD		>1
N/U	270	PD	Pricing Data	O	1
N/U	280	SPI	Specification Identifier	O	1
N/U	290	REF	Reference Identification	O	>1
N/U	300	PDD	Pricing Data Detail	O	>1
N/U	310	MTX	Text	O	>1
N/U	320	DTM	Date/Time Reference	O	10
			LOOP ID - LX		>1
	330	LX	Assigned Number	O	1
	340	NM1	Individual or Organizational Name	O	1
	350	N2	Additional Name Information	O	2
	360	N3	Address Information	O	2
	370	N4	Geographic Location	O	1
	375	PER	Administrative Communications Contact	O	>1
	380	DMG	Demographic Information	O	>1
	390	EMS	Employment Position	O	1
			LOOP ID - N9		>1
	400	N9	Reference Identification	O	1
N/U	405	L11	Business Instructions	O	>1
	410	MTX	Text	O	>1
			LOOP ID - DEG		>1
	420	DEG	Degree Record	O	1
	430	FOS	Field of Study	O	>1
	440	N1	Name	O	>1
			LOOP ID - K2		>1
N/U	450	K2	Administrative Message	O	1
N/U	460	N9	Reference Identification	O	>1
N/U	470	NM1	Individual or Organizational Name	O	>1
Must Use	480	SE	Transaction Set Trailer	M	1

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
ST ¹	M	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code
			M ID 3/3
		Code uniquely identifying a Transaction Set	
		194	X12.372 Grant or Assistance Application
Must Use	ST02	329	Transaction Set Control Number
			M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		<i>This unique control number is assigned by the originator of the transaction set or by the originator's application program. This same number is carried in SE02.</i>	

Segment: **BGN** Beginning Segment
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
 2 BGN03 is the transaction set date.
 3 BGN04 is the transaction set time.
 4 BGN05 is the transaction set time qualifier.
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
BGN ²	M	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	BGN01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
		00	Original	
			<i>Use to indicate the first transmission of a transaction set, other than a preapplication.</i>	
		01	Cancellation	
			<i>Use to indicate the cancellation of a previous transmission.</i>	
		05	Replace	
			<i>Use to indicate that a change has been made to a previous transmission. When used, all data, whether changed or not, must be re-transmitted. When used, the retransmitted data will overwrite the information in the receiving database.</i>	

- 07 Duplicate
Use to indicate the retransmission of a previous transaction set. Use only when the receiving organization requests a retransmission because the receiving application system either did not receive the original transmission or received it incorrectly.
- 24 Draft
Use to indicate a preapplication as authorized in Federal agency instructions.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
00	A	A	A	A	A	A	A	A
01	A		N/U		A ³	A	A	
05	A		N/U		A	A	A	
07	A		N/U		A	A	A	
24	A		N/U		A ⁴	A	A	

Must Use BGN02 127 Reference Identification M AN 1/30
 Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
Use is REQUIRED to identify the grant applicant's unique identifier for this application.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	M	M	M	M	M	M	M	M

Must Use BGN03 373 Date M DT 6/6
 Date (YYMMDD)
Use is REQUIRED to identify the date of the transaction set creation.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
373	M	M	M ⁵	M	M ⁶	M	M	M

Must Use BGN04 337 Time X TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
337	M	M	M	M	M	M	M	M

Must Use BGN05 623 Time Code O ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

- LT Local Time
- UT Universal Time Coordinate

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
LT	M		M		M	N/U	M	
UT	N/U		N/U		N/U	N/U	N/U	

BGN06 127 Reference Identification O AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Use is REQUIRED, if applicable, to identify the unique number associated with a solicitation or announcement as released by the Federal Agency to which this application is responding. Identify the title of the solicitation or announcement in 1/N9/060 loop.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A/M		A ⁷		A ⁸	A	A/M	

Must Use BGN07 640 Transaction Type Code O ID 2/2

Code specifying the type of transaction

1. Codes 07, 6A, 6C, 6N, 6R, 6S, and S4 are used only by a grant applicant.

2. Codes 65 and FM are used only by Federal Agencies.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
640 ⁹	M	M	M	M	M	M	M	M

- 07 Budget
Use to indicate a budget-only submission or re-submission to a previously submitted complete application.
When this code is used, grant applicants provide only the minimal information to correctly identify the submission and complete budget data. Use only the following segments/loops (conflicting implementation convention instructions concerning REQUIRED data and contained in segment, element, or code value notes in other segments may be ignored):
1/ST/010
1/BGN/020
1/NM1/090 loop using only NM101 codes BY, SE, and 1B
2/HL/010 loop for the Project, and any Sub-projects, or Consortiums only
2/PPL/170 loop to provide the budget detail
2/SE/480
- 65 Award Notification
Use to indicate a budget approved by a Federal Agency for an award. Use the segments as instructed in code 07 plus code CT in 1/N9/060.
- 6A Accomplishment Based Renewal
- 6C Competitive Renewal
- 6N Non-competitive Renewal
- 6R Resubmission
Use to indicate a resubmission of an application submitted to the same Federal Agency that was disapproved or unfunded in a previous grant application cycle.
- 6S Supplemental
Use to indicate that this application is a re-

quest for an adjustment in the budget to an existing award.

FM

Funding Modification

Use to indicate a budget proposed by the Federal agency to the grant applicant. Use the segments as instructed in code 07 plus, if applicable, code CT in 1/N9/060.

S4

Submission

Use to indicate the submission of a new application.

CODES	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
07	A		N/U		A	A	A	
65	A		N/U		A	A	A	
6A	N/U		N/U		A	N/U	A	
6C	A		A		A	A	A	
6N	A		N/U		A	N/U	A	
6R	N/U		A		A	A	A	
6S	A		N/U		A	A	A	
FM	A		N/U		A	A	A	
S4	A		A		A	A	A	

BGN08

306

Action Code

O ID 1/2

Code indicating type of action

2

Change (Update)

Use in conjunction with BGN07 code 6S to indicate a proposed adjustment in the budget of an existing award that neither increases nor decreases the grant total amount.

A6

Modified

1. Use in conjunction with BGN07 code FM to indicate a proposed adjustment in the budget of an existing award.

2. Use in conjunction with BGN07 code 65 to indicate an approved adjustment in the budget of an existing award.

AA

Award

1. Use in conjunction with BGN07 code FM to indicate a budget proposed for a new award or renewal.

2. Use in conjunction with BGN07 code 65 to indicate an approved budget for a new award or renewal.

AD Decrease in Amount
 Use in conjunction with BGN07 code 6S to indicate a proposed downward adjustment in the budget of an existing award.

AI Increase in Amount
 Use in conjunction with BGN07 code 6S to indicate a proposed upward adjustment in the budget of an existing award.

CODES	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
2	A		A		A	A	A	
A6	A		A		A	A	A	
AA	A		A		A	A	A	
AD	A		A		A	A	A	
AI	A		A		A	A	A	

BGN09 786 Security Level Code O ID 2/2

Code indicating the level of confidentiality assigned by the sender to the information following

1. Use to identify the highest level of government security classification applicable to the data contained within this transaction. Do not use if not classified.

2. Prior notification must be made with the receiving Federal Agency and appropriate security steps taken before classified data can be transmitted using EDI.

92 Government Confidential

93 Government Secret

CODES	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
92	N/U		N/U		N/U	A	N/U	
93	N/U		N/U		N/U	A	N/U	

Segment: **DTM** Date/Time Reference

Position: 030

Loop:

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

1. Use this DTM segment to identify the date the applicant's offer expires.
2. When the applicant organization is applying for Small Business Innovation Research (SBIR) or Small Business Technology Transfer (STTR) assistance, use to identify the date the for-profit company was founded.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
DTM	A		N/U		A	A	A	

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		036	Expiration	
			<i>Use to indicate the date this offer is withdrawn by the applicant organization from Federal Agency consideration for award.</i>	
		145	Opening Date	
			<i>Use only for SBIR and STTR applications to indicate the date the company was founded.</i>	

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
036	A		N/U		A ¹⁰	A	A	
145	A		N/U		A	A	A	

Must Use	DTM02	373	Date Date (YYMMDD)	X	DT	6/6
	DTM05	624	Century The first two characters in the designation of the year (CCYY)	O	N0	2/2

Segment: **PWK** Paperwork
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the type and transmission of paperwork or supporting information
Syntax Notes: 1 If either PWK05 or PWK06 is present, then the other is required.
Semantic Notes:
Comments: 1 PWK05 and PWK06 may be used to identify the addressee by a code number.
 2 PWK07 may be used to indicate special information to be shown on the specified report.
 3 PWK08 may be used to indicate action pertaining to a report.
Notes: *Use this PWK segment to indicate that information related to the application is being provided by means other than this EDI transaction set.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
PWK	A		N/U		A	A	A	

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	PWK01	755	Report Type Code	M ID 2/2
			Code indicating the title or contents of a document, report or supporting item	
			AE Attachment	
				<i>Use to indicate that SOME supplementary technical information is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code SD.</i>
			C1 Cost Data Summary	
				<i>Use to indicate that the cost and price (budget) data is being provided by means other than this transaction set.</i>

SD Support Data for a Request for Quote
Use to indicate that ALL technical data is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code AE.

Must Use PWK02 756 Report Transmission Code O ID 1/2

Code defining timing, transmission method or format by which reports are to be sent

- BE By Mail and Electronically
Use to indicate E-Mail.
- BM By Mail
Use to indicate transmittal via the United States Postal Service (USPS).
- CF Courier
Use to indicate transmittal via commercial express courier. Use in conjunction with PWK04/05.
- DA Data
Use to indicate other forms of electronic transfer. When used, identify the other form in PWK07.
- EL Electronically Only
Use to indicate that data was sent by a separate EDI transaction set. When used, identify the unique number of the transaction set in N902 of the 1/N9/060 segment citing code TN in N901.
- FX By Fax
- IA Electronic Image
Use to indicate the World Wide Web. When used, provide the Universal Resource Locator (URL) where information is to be obtained in PWK07.

PWK04 98 Entity Identifier Code O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

- CA Carrier
Use in conjunction with PWK02 code CF, PWK05/06 to identify the carrier.

PWK05	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<i>While the Federal EDI program uses the Data Universal Numbering System (DUNS) and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.</i>	
	1	D-U-N-S Number, Dun & Bradstreet <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>	
	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>	
	33	Commercial and Government Entity (CAGE)	
PWK06	67	Identification Code	X AN 2/20
		Code identifying a party or other code <i>Use to identify the DUNS number, DUNS+4 number or CAGE code of the carrier.</i>	
PWK07	352	Description	O AN 1/80
		A free-form description to clarify the related data elements and their content <i>1. When PWK02 is code DA, use to identify the other form of electronic transfer.</i>	
		<i>2. When PWK02 is code IA, use to provide the Universal Resource Locator (URL) where information is to be obtained.</i>	

Segment: **N9 Reference Identification**
Position: 060
Loop: N9
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: *When BGN07 is code 65, 6A, 6C, 6N, 6R, 6S, FM, or S4, use of this N9 loop is REQUIRED.*

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	N901	128	Reference Identification Qualifier	M ID 2/3
			Code Qualifying the Reference Identification	
		2S	Catalog	<i>Use to indicate the primary Catalog of Federal Domestic Assistance program number applicable to this application.</i>
		4W	Study	<i>When BGN07 is code 6A, 6C, 6N, 6R, or S4, use is REQUIRED to indicate the application title. Cite the word TITLE in N903 and use the 1/MTX/080 to cite the title.</i>
		CT	Contract Number	<i>When BGN07 is code 65, 6A, 6C, 6N, 6S, or FM, use is REQUIRED to indicate the award identification.</i>
		KS	Solicitation	<i>Use to indicate the title of the solicitation or announcement identified in BGN06. Cite the</i>

word SOURCE in N903 and use the 1/MTX/080 to cite the solicitation title.

- P4 Project Code
Use to indicate the project number applicable to the application.
- PID Program Identification Number
Use to indicate a code identifying a Federal program, or if a code is not known, the Federal program name. Use of a code is preferred. Cite the code in N902; cite the program name in N903.
- TN Transaction Reference Number
Use to indicate the unique number of a related transaction set. When used, cite code 87 in N907-1 and the X12 transaction set numeric identifier in N907-2.
- WK Type of Science Code
1. Use multiple occurrences as needed to indicate in N902 the keycode for area of science to which the application applies. The keycodes are found in the Grant Keyword Thesaurus.

2. If a code cannot be found for the area of science applicable to this application, use N903 to describe the subject.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
2S	A		N/U ¹¹		A	A	A	
4W	A		A		A	A	A	
CT	A		A ¹²		A	A	A	
KS	A		A		A	A	A	
P4	A		N/U		A	N/U	A	
PID	N/U		N/U		N/U	N/U	N/U	
TN	A		N/U		A	N/U	A	
WK	A		N/U		A	A	A	

N902 127 Reference Identification X AN 1/30
 Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A		A ¹³		A	A	A	

N903 **369** **Free-form Description** **X AN 1/45**
 Free-form descriptive text

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
369	A		A ¹⁴		A ¹⁵	A	A	

N907 **C040** **Reference Identifier** **O**

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier
When N901 is code TN, use is REQUIRED to reference the applicable X12 transaction set.

Must Use C04001 **128** **Reference Identification Qualifier** **M ID 2/3**

Code Qualifying the Reference Identification
 87 Functional Category

When N901 is code TN, use is REQUIRED to qualify the number in N907-2 as the applicable X12 transaction set.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
128	A		N/U		A	A	A	

Must Use C04002 **127** **Reference Identification** **M AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
When C04001 is code 87, use is REQUIRED to identify the X12 transaction set numeric designation, e.g. 864 to indicate an Accredited Standards Committee (ASC) X12 864 Text Message transaction set.

Segment: **MTX** Text
Position: 080
Loop: N9
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes: 1 If MTX01 is present, then MTX02 is required.
 2 If MTX03 is present, then MTX02 is required.

Semantic Notes:

Comments:

- Notes:**
1. When N901 is code 4W, use of this MTX segment is **REQUIRED** to identify the application title.
 2. When N901 is code KS, use of this MTX segment is **REQUIRED** to identify the title of the Federal solicitation to which this application is responding.

Data Element Summary

Ref.	Data	
Des.	Element Name	Attributes
Must Use	MTX02 1551 Message Text	X AN 1/4096
	To transmit large volumes of message text	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1551	A ¹⁶		A ¹⁷		A ¹⁸	A	A ¹⁹	

Segment: **NM1 Individual or Organizational Name**

Position: 090

Loop: NM1

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity

Syntax Notes:

- 1 If either NM108 or NM109 is present, then the other is required.
- 2 If NM111 is present, then NM110 is required.

Semantic Notes:

- 1 NM102 qualifies NM103.

Comments:

- 1 NM110 and NM111 further define the type of entity in NM101.

Notes:

1. Use this NM1 loop only to identify the organizations and individuals associated with the business process of submitting the grant application. Use the 2/NM1/340 segment to identify project personnel.
2. At least 3 iterations of this NM1 loop are **REQUIRED** using NM101 code **BY** to identify the Federal Agency to receive the application, code **SE** to identify the grant applicant organization, and code **1B** to identify the applicant organization authorizing individual. Use the **PER** segment to identify the Federal Agency point of contact associated with code **BY**.
3. Whenever possible, identify the organization using only a qualifier and number in NM108/09 and the appropriate codes in NM101/02. The organization's full address was established at the time of registration as a Federal Government trading partner. Where no qualified number is available, specify the organization's name in the NM103 (and N2 as needed) and the full address in N3-N4.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
NM1	M	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98 Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	

- 1B** Applicant
Use is REQUIRED to indicate the grant application authorizing individual in NM103/04. This is the person associated with the grant applicant organization, code SE. Specify the authorizing individual's address in N3 - N4 if different from the grant application organization, code SE.
- AD** Party to be advised (Written orders)
Use to indicate the business officer for the grant applicant. Specify the business officer's address in N3-N4 if different from the grant application organization, code SE.
- BY** Buying Party (Purchaser)
Use is REQUIRED to indicate the Federal Agency to which the application is being submitted.
- FA** Facility
Use to indicate the principal place of performance in NM108/09 when other than the address identified with code SE. Use the 2/NM1/340 segment to identify the place of performance associated with each appropriate HL loop, citing code 61 in NM101.
- SE** Selling Party
1. Use is REQUIRED to indicate the grant applicant organization.

2. When the applicant organization is applying for SBIR or STTR assistance, identify the date the for-profit company was founded in 1/DTM/030.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1B	M		M ²⁰		M ²¹	M	M	
AD	A		A ²²		N/U	M	A	
BY	M		M ²³		M	M	M	
FA	A		N/U		A ²⁴	M	A	
SE	M		M ²⁵		M ²⁶	M	M	

Must Use NM102 1065 Entity Type Qualifier M ID 1/1

Code qualifying the type of entity

1 Person

When NM101 is code AD or IB, use of NM103/04 is REQUIRED to indicate the name of the individual, using NM105/06/07 as needed.

2 Non-Person Entity

Use with NM101 codes BY, FA, and SE to indicate that the entity being identified is an organization.

NM103 1035 Name Last or Organization Name O AN 1/35

Individual last name or organizational name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1035	A ²⁷		A ²⁸		A ²⁹	A	A ³⁰	

NM104 1036 Name First O AN 1/25

Individual first name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1036	A ³¹		A		A ³²	A	A ³³	

NM105 1037 Name Middle O AN 1/25

Individual middle name or initial

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1037	A ³⁴		A ³⁵		A ³⁶	A	A	

NM106 1038 Name Prefix O AN 1/10

Prefix to individual name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1038	A		A		A ³⁷	A	A	

NM107 1039 Name Suffix

O AN 1/10

Suffix to individual name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1039	A		A ³⁸		A ³⁹	A	A	

NM108 66 Identification Code Qualifier

X ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use in conjunction with NM101 code BY to indicate a Department of Defense (DoD) or Civilian Agency Activity Address Code.
- 33 Commercial and Government Entity (CAGE)
Use to indicate the specified organization's CAGE code.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1	A		A ⁴⁰		A ⁴¹	M	A	
9	A		A ⁴²		A ⁴³	A	A	
10	A		N/U		N/U	A	N/U	
33	A		N/U		N/U	M	N/U	

NM109	67	Identification Code	X	AN	2/20
		Code identifying a party or other code			

Segment: **N2 Additional Name Information**

Position: 100

Loop: NM1

Level: Heading

Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes:

Semantic Notes:

Comments:

Notes: *Use if the name of the organization or individual cannot be fully accommodated in NM103/04/05/06/07.*

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
Must Use	N201	93	Name	M AN 1/35
			Free-form name	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
93	A		A ⁴⁴		A ⁴⁵	A	A	

N202	93	Name	O AN 1/35
		Free-form name	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
93	A		N/U		N/U	A	A	

Segment: **N3** Address Information
Position: 110
Loop: NM1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Syntax Notes:

Semantic Notes:

Comments:

Notes: *Use to provide a street address for the organization or individual identified in NM103/04/05/06/07 if it cannot be provided by a code in NM108/09 or if it differs from the geographic information associated with the code.*

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
Must Use	N301	166	Address Information Address information	M AN 1/35
	N302	166	Address Information Address information	O AN 1/35

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
N301	A		A ⁴⁶		A ⁴⁷	A	A	
N302	A		A		A	A	A	

- Segment:** **N4 Geographic Location**
- Position:** 120
- Loop:** NM1
- Level:** Heading
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify the geographic place of the named party
- Syntax Notes:** 1 If N406 is present, then N405 is required.
- Semantic Notes:**
- Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
- Notes:** *Use to provide a city, state, zip code and other required information for a complete address for the organization or individual identified in NM103/04/05/06/07 if it cannot be provided by a code in NM108/09 or if it differs from the geographic information associated with the code.*

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26 Country Code Code identifying the country	O ID 2/3

N405 309 Location Qualifier X ID 1/2

Code identifying type of location

CY County/Parish

When NM101 is code SE, use to indicate the county of the applicant as specified in the Federal Agency grant application instructions.

N406 310 Location Identifier O AN 1/30

Code which identifies a specific location

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
19	A		A		A	A	A	
156	A		A		A	A	A	
116	A		A ⁴⁸		A	A	A	
26	A		A ⁴⁹		A	N/U	A	
309	A		N/U		A ⁵⁰	A	A	
310	A		N/U		N/U	A	A	

Segment: **N9 Reference Identification**

Position: 130

Loop: NM1

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: 1. When NM101 is code IB, AD, or SE, use of this N9 segment is *REQUIRED* to identify numbers and information relating to organizations and individuals.

2. Use multiple repetitions of this N9 segment as needed to identify additional numbers and information regarding organizations and individuals specified in the NM1 loop.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
N9					A	A		

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N901	128	Reference Identification Qualifier
			Code Qualifying the Reference Identification
		19	Division Identifier
			1. When NM101 is code BY, use to indicate the name of the receiving Federal Agency's division or office responsible for the program to which the applicant is applying. Cite the name in N903.
			2. When NM101 is code SE, use to indicate

- the major subdivision name of the grant applicant organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.*
- 5C Congressional District
When NM101 is code SE, use is REQUIRED to indicate the Congressional District of the grant applicant.
- CR Customer Reference Number
When NM101 is code SE, use to indicate an identification number assigned to the grant applicant organization by the Federal Agency receiving the application.
- DP Department Number
When NM101 is code SE, use to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the grant applicant organization. For example, Department of Industrial Engineering or Sales Department.
- EI Employer's Identification Number
When NM101 is code SE, use to indicate the grant applicant's Entity Identification Number, if available, or Employer Identification Number.
- P5 Position Code
When NM101 is code 1B or AD, use is REQUIRED to indicate the job title of the individual. Cite the title in N903.
- TJ Federal Taxpayer's Identification Number
When NM101 is code SE, use is REQUIRED to indicate the grant applicant's Federal TIN. For individuals without a TIN, cite the individual's Social Security Account Number.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
19	A		A ⁵¹		A ⁵²	A		
5C	A ⁵³		A ⁵⁴		A	N/U		
CR	N/U		A ⁵⁵		A ⁵⁶	N/U		
DP	A		N/U		NU	A		
EI	A		A ⁵⁷		A ⁵⁸	A		
P5	A		A		A ⁵⁹	A		
TJ	A		N/U		A	A		

N902 **127** **Reference Identification** **X AN 1/30**
 Reference information as defined for a particular Transaction Set
 or as specified by the Reference Identification Qualifier

CATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A	A	A		A	A	A	

N903 **369** **Free-form Description** **X AN 1/45**
 Free-form descriptive text

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
369	A		A ⁶⁰		A ⁶¹	A	A	

Segment: **PER** Administrative Communications Contact
Position: 140
Loop: NM1
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: 1. Use multiple repetitions as needed to identify communications numbers associated with individuals or organizations identified in the NM1 segment.

2. When NM101 is code 1B or AD, use is **REQUIRED**. Use is optional with codes BY and SE.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
PER	A		A		A	A	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact M ID 2/2
	PER02	93	Name Free-form name <i>When NM101 is code BY or SE, use to identify the name of a point of contact. Last name, followed by first name, is preferred. If the whole name is longer than 35 characters, the use of an initial for the first name is recommended.</i> O AN 1/35

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
93	A		N/U		N/U	A	A	

Must Use PER03 365 Communication Number Qualifier X ID 2/2

Code identifying the type of communication number

1. Use to identify the preferred method of communication in the first occurrence. Use PER05/06 and PER07/08 to identify additional communications numbers.
2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM Electronic Mail

FX Facsimile

Include area code and number.

IT International Telephone

Include country and city codes as needed.

TE Telephone

Include area code and number.

CODE	DOE	HHS	NIH ⁶²	DOT	NSF	ARO	ONR	AFOSR
EM	A		A		N/U	A	A	
FX	A		A ⁶³		N/U	A	A	
IT	N/U		N/U		N/U	A	N/U	
TE	A		A ⁶⁴		A ⁶⁵	A	A	

Must Use PER04 364 Communication Number X AN 1/80

Complete communications number including country or area code when applicable

PER05 365 Communication Number Qualifier X ID 2/2

Code identifying the type of communication number

1. Use to identify an alternate, or secondary, communications number which can be used to contact the specified Point of Contact (POC).
2. All numbers, other than those associated with code EM, shall

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
EM	A		A		A ⁶⁷	A	A	
EX	N/U		N/U		N/U	A	N/U	
FX	A		A		N/U	A	A	
IT	N/U		N/U		N/U	A	N/U	
TE	A		A		N/U	A	A	

PER08 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable

PER09 443 Contact Inquiry Reference O AN 1/20
 Additional reference number or description to clarify a contact number
Use to provide the office symbol or organization routing code of the individual cited in PER02.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
443	A		N/U		N/U	A	A	

Segment: **HL Hierarchical Level**
Position: 010
Loop: HL
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

- Notes:**
1. *Use this HL loop to identify project organization, personnel, technical data, and budget data associated with the application.*
 2. *The transaction set hierarchy as defined by this HL loop shall be:*
 - a. *The Project loop shall be the first iteration of the HL loop.*
 - b. *The Project loop may have a single subordinate Previous Award (IB) loop.*
 - c. *The Project loop may have any number of subordinate Sub-project (SP), Consortium (CO), Key Person (26), human subject Care Group (4), or Animal Subject (AS) loops.*
 - d. *Sub-project and Consortium loops may have any number of subordinate Sub-project, Consortium, Key Person, human subject Care Group, or Animal Subject loops.*

e. Key Person loops may have any number of subordinate Other Support (OS) loops.

f. Care Group loops may have any number of subordinate medical Procedure (PD) loops.

g. Animal Subject loops may have any number of subordinate Animal Subject loops, but only if the subordinate loop contains a subset of animals of the same species.

3. The term "project" in the following implementation notes is used generically to identify dates, quantities, etc. related to the Project and subordinate Sub-projects and/or Consortiums. The terms "Project loop", "Sub-project loop", and "Consortium loop" are not interchangeable. They are used to distinguish between the efforts and to establish the precise hierarchical relationship between them.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
HL	M	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	HL01	628	Hierarchical ID Number M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>In the first iteration of this HL loop, cite the number 1. Increment by 1 for each subsequent iteration of the loop.</i>
	HL02	734	Hierarchical Parent ID Number O AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>Use to identify the HL01 sequence number of the loop which is the parent loop to the current HL loop iteration.</i>
Must Use	HL03	735	Hierarchical Level Code M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure <i>Select a code to indicate that the current HL loop iteration is one of the following loop types: Project, Sub-project, Consortium, Previous Award, Key Person, Other Support, Animal Subject, human subject Care Group, or Procedure.</i>

- 4 Group
Use to indicate a human subject Care Group loop. A Care Group loop must have the Project, a Sub-project, or a Consortium loop as its parent.
- 26 Member
1. Use to indicate a Key Person loop. This loop is only needed when the individual has active, pending or planned other support. Use of a separate loop iteration is REQUIRED for each Key Person (NM101 codes 9P, 9S, or 9K in the 2/NM1/340 segment) identified in the Project or any Sub-project or Consortium loop who is receiving, applying for, or planning to apply for other support.

2. A Key Person loop must have the Project, a Sub-project, or a Consortium loop as its parent. For each Key Person loop, a subordinate Other Support loop is REQUIRED for each other support project to identify the level of support, the organization providing the support, and other related data.
- AS Animal Subject Group
Use to indicate an Animal Subject loop. An Animal Subject loop must have the Project, a Sub-project, a Consortium, or other Animal Subject loop as its parent. Animal Subject loops only apply to vertebrates.
- CO Consortium
Use to indicate a Consortium loop. A Consortium loop must have the Project, a Sub-project, or other Consortium loop as its parent.
- IB Contract
Use to indicate a Previous Award loop. The Previous Award loop may only have the Project loop as its parent. Use this code only if 1/BGN07/020 contains the code 6A, 6C, 6N.

- OS** **Support**
- 1. When HL03 is code 26 (Key Person loop), use to indicate an Other Support loop associated with the Key Person.*
- 2. One iteration of an Other Support loop is REQUIRED for EACH project (active, pending, or planned), other than a project contained in this application, to identify the level of support, the organization providing the support, and other related data . Submission of this same application to another agency requires the use of an Other Support loop.*
- PC** **Project Code**
- Use is REQUIRED in the first iteration of the HL loop to identify the Project loop. Do not use in subsequent loops.*
- PD** **Procedure**
- Use to indicate a medical Procedure loop. A Procedure loop must have a human subject Care Group loop as its parent.*
- SP** **Sub-Project**
- Use to indicate a Sub-project loop. A Sub-project loop must have the Project, another Sub-project, or a Consortium loop as its parent.*

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
4	A		A ⁶⁸		A ⁶⁹	N/U	A	
26	A		N/U		A	A	A	
AS	A		A ⁷⁰		A ⁷¹	AS	A	
CO	A		A ⁷²		A ⁷³	A	A	
IB	A		N/U		A	A	A	
OS	A		N/U		A	A	A	
PC	M		M		M	A	M	
PD	A		N/U		N/U	A	A	
SP	A		A		A ⁷⁴	A	A	

HL04 736 Hierarchical Child Code O ID 1/1

Code indicating if there are hierarchical child data segments subordinate to the level being described

Use to indicate whether or not there is a subordinate loop to follow.

0 No Subordinate HL Segment in This Hierarchical Structure.

1 Additional Subordinate HL Data Segment in This Hierarchical Structure.

CATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
736	A		A		A	A	A	

Segment: QTY Quantity
Position: 020
Loop: HL
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify quantity information
Syntax Notes:
Semantic Notes:
Comments:
Notes: Use this segment only when HL03 is code PC (Project loop), AS (Animal Subject loop) or, 4 (Care Group loop)

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
		1K	Time Units	
			<i>When HL03 is code 4 (Care Group loop), or AS (Animal Subject loop), use multiple occurrences as needed to indicate the Project budget period in which the group will be used. Cite 1 for the first budget period of the project, 2 for the second, etc.</i>	
		E5	Employed by this Company	
			<i>When HL03 is code PC (Project loop), use to indicate the number of employees in the company. Use only in Small Business Innovation Research Program (SBIR) and Small Business Technology Transfer Program (STTR) applications.</i>	
		S7	Age, High Value	
			<i>When HL03 is code 4 (Care Group loop) or AS (Animal Subject loop), use to indicate upper limit in the age range criterion for human and animal subjects.</i>	

- S8** Age, Low Value
Use when HL03 is code 04 (Care Group loop) or AS (Animal Subject loop) to indicate the lower limit in the age range criterion for human and animal subjects.
- TO** Total
When HL03 is code 4 (Care Group loop) or AS (Animal Subject loop), use to indicate the number of subjects in the group.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1K	A		A		N/U	N/U	A	
E5	A		N/U		A ⁷⁵	A	A	
S7	A		A		N/U	N/U	A	
S8	A		A		N/U	N/U	A	
TO	A		A		A	N/U	A	

Must Use QTY02 380 Quantity M R 1/15
 Numeric value of quantity

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARAO	ONR	AFOSR
380	A		A		A ⁷⁶		A	

Must Use QTY03 C001 Composite Unit of Measure O
 To identify a composite unit of measure(See Figures Appendix for examples of use.)

Must Use C00101 355 Unit or Basis for Measurement Code M ID 2/2
 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Use the applicable unit of measure code dependent on the code cited in QTY01. When QTY01 is code E5, TO, or 1K, use code EA. When QTY01 is code S7 or S8, use one of codes DA, MO, or YR.

- DA Days
 EA Each

MO Months
YR Years

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
DA	A		A		N/U	A	A	
EA	A		A		A	A	A	
MO	A		A		N/U	A	A	
YR	A		A		N/U	A	A	

Segment: **AMT** Monetary Amount
Position: 030
Loop: HL
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount

Syntax Notes:

Semantic Notes:

Comments:

Notes: Use multiple repetitions of this AMT segment, as needed, when HL03 is code PD (Procedure loop) or AS (Animal Subject loop).

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
AMT	A				N/U	A		

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/2
			Code to qualify amount	
			<p>1. When HL03 is code PD (Procedure loop), use codes 1F and 1G to identify outpatient expenses NOT associated with in-patient stays; use the 2/PAM/060 segment to identify the cost of in-patient hospital stays.</p> <p>2. When HL03 is code AS (Animal Subject Loop) and either code G3 or SP is used, provide the species description in the 2/N9/100 loop citing code L4 in N901 and code H. 1 in N902.</p> <p>3. When HL03 is code PD (Procedure loop), use codes 1H, D7, and FE to identify costs associated with either inpatient or outpatient procedures.</p> <p>1F Lodging</p> <p>1G Meals</p> <p>1H Travel Expense</p> <p>D7 Dispensing Fee</p> <p>When HL03 is code PD (Procedure loop), use to identify the unit cost per care procedure.</p>	

- FE Fee
Use to indicate the total fees paid to donors.
- G3 Price per Unit Area
When HL03 is code AS (Animal Subject loop), use multiple repetitions, as needed, to indicate the purchase price of animals that individually priced. When this code is used, do not use code SP.
- SP Sales Price
When HL03 is code AS (Animal Subject loop), use to indicate the average purchase price of animals in a group. When this code is used, do not use code G3.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1F	A		N/U		N/U	A	A	
1G	A		N/U		N/U	A	A	
1H	A		N/U		N/U	A	A	
D7	A		N/U		N/U	A	A	
FE	A		N/U		N/U	A	A	
G3	A		A		N/U	A	A	
SP	A		A		N/U	A	A	

Must Use AMT02 782 Monetary Amount
 Monetary amount

M R 1/15

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
782	A		A		N/U	A	A	

Segment: **DTM** Date/Time Reference

Position: 050

Loop: HL

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM06 is required.
 - 2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use to indicate the planned start and stop dates for the project.*

Data Element Summary

Ref.	Data							<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>						
Must Use	DTM01	374	Date/Time Qualifier					M ID 3/3
				Code specifying type of date or time, or both date and time				
			193	Period Start				
				<i>Use to indicate the planned start date.</i>				
			194	Period End				
				<i>Use to indicate the planned completion date.</i>				
			432	Submission				
				<i>When HL03 is code OS, use to indicate the submission date for active or pending Other Support.</i>				

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
193	A		A		A	A	A	
194	A		A		N/U	A	A	
432	A		N/U		A	A	A	

Must Use DTM02 373 Date **X DT 6/6**
 Date (YYMMDD)

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
373	A		A ⁷⁷		A ⁷⁸	A		

DTM05 624 Century **O N0 2/2**
 The first two characters in the designation of the year (CCYY)

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
624	A		A ⁷⁹		A	A	A	

Segment:	PAM Period Amount
Position:	060
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate a quantity, and/or amount for an identified period
Syntax Notes:	<ol style="list-style-type: none"> 1 If any of PAM01 PAM02 or PAM03 is present, then all are required. 2 At least one of PAM02 PAM05 or PAM14 is required. 3 If either PAM04 or PAM05 is present, then the other is required. 4 If either PAM06 or PAM07 is present, then the other is required. 5 If PAM07 is present, then at least one of PAM08 or PAM09 is required. 6 If PAM07 is present, then PAM06 is required. 7 If PAM08 is present, then PAM07 is required. 8 If PAM09 is present, then PAM07 is required. 9 If PAM10 is present, then at least one of PAM11 or PAM12 is required. 10 If PAM11 is present, then PAM10 is required. 11 If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 PAM10, PAM11, or PAM12 are used when two dates are required.
Comments:	
Notes:	<ol style="list-style-type: none"> 1. When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop), use of this segment is <i>REQUIRED</i> to identify the planned duration of the project. 2. When HL03 is code OS (Other Support loop), at least one occurrence of this segment is <i>REQUIRED</i> to identify the total and annual direct funding (active, pending, or planned) for the project, the amount of effort on the part of the identified individual in the parent Key Person loop in support of that project, the total period of performance, and the type of period (e.g., summer period). Multiple occurrences may be used to specify different levels of effort to be worked on the Other Support project during different time periods. 3. When HL03 is code PD (Procedure loop), use this segment to identify the average number of days and the daily rate of in-patient hospital stays. 4. When HL03 is code AS (Animal Subject loop), use this segment to iden-

tify the average number of days and the daily rate for housing animal subjects.

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element Name</u>	<u>ID</u>
PAM01	673 Quantity Qualifier	X ID 2/2
	Code specifying the type of quantity	
	37 Work In Process	
		<i>When HL03 is code OS (Other Support loop), use to indicate the number of labor months of active support funded by the other project.</i>
	A3 Most Likely Duration	
		<i>When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use is REQUIRED to indicate the planned duration of a project.</i>
	AY Forecast	
		<i>When HL03 is code OS (Other Support loop), use to indicate the number of labor months of support planned for submission to the other project.</i>
	DY Days	
		<i>1. When HL03 is code PD (Procedure loop), use to indicate the average number of days a patient will be in a hospital or treatment facility.</i>
		<i>2. When HL03 is code AS (Animal Subject loop), use to indicate the average length of housing.</i>
	E3 Employed on this job	
		<i>When HL03 is code OS (Other Support loop), use to indicate the average level of effort to be dedicated to the project if less than full time for the individual identified in the parent Key Person loop. Cite the level of effort in months in PAM02/03 and as a percentage in PAM13/14. Identify the applicable period in PAM06, PAM07/08, and PAM10/11.</i>
	KA Estimated	
		<i>When HL03 is code OS (Other Support loop),</i>

use to indicate the number of labor months of pending support requested for the other project.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
37	A		N/U		A	A	A	
A3	A		A		A	A	A	
AY	A		N/U		A	A	A	
DY	A		A		N/U	N/U	A	
E3	A		N/U		N/U	A	A	
KA	A		N/U		A	A	A	

PAM02 380 Quantity **X R 1/15**
 Numeric value of quantity

PAM03 C001 Composite Unit of Measure **X**
 To identify a composite unit of measure(See Figures Appendix for examples of use.)

Must Use C00101 355 Unit or Basis for Measurement Code **M ID 2/2**
 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

DA Days
Use only with PAM01 code DY.

MO Months
Use with PAM01 code 37, A3, AY, E3, and KA.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
DA	A		A		N/U	A	A	
MO	A		A		A	A	A	

PAM04 522 Amount Qualifier Code **X ID 1/2**
 Code to qualify amount

80 Funding - Total Requirements

- When HL03 is code OS (Other Support loop) and PAM01 is code 37, use to indicate the total awarded amount.
- When HL03 is code OS (Other Support loop) and PAM01 is code KA, use to indicate the total requested amount.

period when not an academic period, summer period or an annual period.

CY Calendar Year

Use to indicate an annual period.

SP Summer Period

Use to indicate a summer period.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
AP	A		A		A	A	A	
CC	A		A		N/U	A	A	
CY	A		A		A	A	A	
SP	A		A		A	A	A	

PAM07 374 Date/Time Qualifier X ID 3/3

Code specifying type of date or time, or both date and time

193 Period Start

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37 use to indicate the date the support started.

2. When HL03 is code OS (Other Support loop) and PAM01 is code AY or KA use to indicate the estimated start date.

PAM08 373 Date X DT 6/6

Date (YYMMDD)

PAM10 374 Date/Time Qualifier X ID 3/3

Code specifying type of date or time, or both date and time

194 Period End

When HL03 is code OS (Other Support loop) and PAM01 is either code 37, AY, or KA, use to indicate the date that support (planned, pending, or active) is anticipated to terminate.

PAM11 373 Date X DT 6/6

Date (YYMMDD)

PAM13 1004 Percent Qualifier X ID 1/2

Code to qualify percent

14

Availability Factor

When PAM01 is code E3, use to indicate the average level of effort to be dedicated to the project if less than full time (100%) for the individual identified in the parent Key Person loop.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1004	A		A		N/U	A	A	

PAM14 954 Percent

X R 1/10

Percentage expressed as a decimal

Cite 50 to indicate 50% (one-half time); cite 75.5 to indicate 75.5%.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
954	A		A		N/U	A	A	

Segment: **HSD** Health Care Services Delivery

Position: 070

Loop: HL

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify the delivery pattern of health care services

Syntax Notes: 1 If either HSD01 or HSD02 is present, then the other is required.

2 If HSD06 is present, then HSD05 is required.

Semantic Notes:

Comments:

Notes: *When HL03 is code PD (Procedure loop), use this segment to identify the number of patients to receive a treatment and the average number of treatments to be provided to each patient.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
HSD	A		N/U		N/U	N/U	A	

Data Element Summary

Ref.	Data				
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>	
Must Use	HSD01	673	Quantity Qualifier	X	ID 2/2
			Code specifying the type of quantity		
			AG Number of End Users		
			<i>Use to indicate the number of patients being treated with the specified procedure.</i>		
Must Use	HSD02	380	Quantity	X	R 1/15
			Numeric value of quantity		
Must Use	HSD05	615	Time Period Qualifier	X	ID 1/2
			Code defining periods		
			1 Chargeable Periods		
			<i>Use to indicate the average number of treatments to be administered to each patient.</i>		

Must Use HSD06 616 Number of Periods O N0 1/3
Total number of periods

Segment: **NX1** Property or Entity Identification
Position: 080
Loop: HL
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To define the attributes of a property or an entity
Syntax Notes:
Semantic Notes:
Comments:
Notes: 1. When HL03 is code PC (Project loop), a single occurrence of this segment is *REQUIRED* to identify the type of organization submitting the application.
 2. Use, as applicable, when HL03 is code SP (Sub-project loop) or CO (Consortium loop).

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NX101	98	Entity Identifier Code
			Code identifying an organizational entity, a physical location, or an individual
			<i>Use ALL listed codes that apply. Cite the applicable codes in NX101/02/03/04/05, as needed.</i>
		1F	Alliance
			<i>Use to indicate an international organization (e.g., World Health Organization).</i>
		21	Small Business
		27	Small Disadvantaged Business
		2F	State
		2J	Individual
		2R	Federal Facility
			<i>Use to indicate a Federally owned facility.</i>
		80	Hospital
		8E	Minority Institution
			<i>Use to indicate the organization is also an institution of higher education and code HB</i>

- does not apply. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, and C8; otherwise, the institution will be considered to be privately-owned.*
- 91 Action Party
Use to indicate a Community Action Agency.
- 95 Research Institute
Also use code 2F, 2R, C6, C7, or C8 if the institution is publicly-owned.
- A2 Woman-Owned Business
- A6 Section 8(a) Program Participant Firm
- A8 Nonprofit Institution
1. Use to indicate a nonprofit entity not otherwise identified by a listed code.

2. Also may be used with other codes to indicate that the entity is a nonprofit organization. If this code is not used in conjunction with another code, that entity will be assumed to be for-profit. Do not use with codes 1F, 2F, 2R, C6, C7, C8, or XY.
- B2 Other Unlisted Type of Organizational Entity
Use to indicate an organizational entity type not included in other available codes (e.g., a Federally Funded Research and Development Center [FFRDC]). This code may be used in conjunction with code A8 but not other codes.
- B9 Large Business
- BZ Business Associate
Use to indicate a Foundation; an organization, closely affiliated with but separately incorporated from another organization, established to facilitate the administration of research and other programs supported by Federal funds.
- C6 Municipality
Use to indicate a local government-owned entity. Includes boroughs, townships and organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned in-

	<i>stitution of higher education.</i>
C7	County <i>Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.</i>
C8	City <i>Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.</i>
H6	School District
HB	Historically Black College or University <i>If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.</i>
KM	Coordinator <i>Use to indicate a Planning Commission.</i>
M8	Educational Institution <i>The organization is also an institution of higher education. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.</i>
T4	Transfer Point <i>Use to indicate a Port Authority.</i>
TR	Terminal <i>Use to indicate an Airport Authority.</i>
TW	Transit Authority
UD	Region <i>Use to indicate a Council of Governments.</i>
XY	Tribal Government <i>Use to indicate an American Indian organization which is not a business.</i>
XZ	American Indian-Owned Business

ZZ

Mutually Defined

Use to indicate the organization is predominantly Hispanic (Hispanic Service Institute).

CODE	DOE	HHS	NIH ⁸⁰	DOT	NSF ⁸¹	ARO	ONR	AFOSR
1F	A		N/U		A	N/U	A	
21	A		A		A	A	A	
27	A		N/U		A ⁸²	A	A	
2F	A		A		A	A	A	
2J	A		N/U		A	A	A	
2R	A		A		A	A	A	
80	A		N/U		A	A	A	
8E	A		A		A	A	A	
91	A		N/U		N/U	N/U	A	
95	A		N/U		N/U	A	A	
A2	A		A		A	A	A	
A6	A		A		N/U	A	A	
A8	A		A		A	A	A	
B2	A		N/U		A	A	A	
B9	A		A		A	A	A	
BZ	A		N/U		A	A	A	
C6	A		A		A	A	A	
C7	A		N/U		A	A	A	
C8	A		N/U		A	A	A	
H6	A		N/U		A	N/U	A	
HB	A		N/U		A	A	A	
KM	N/U		N/U		A	N/U	N/U	
M8	A		A		A	A	A	
T4	N/U		N/U		N/U	N/U	N/U	
TR	N/U		N/U		N/U	N/U	N/U	
TW	N/U		N/U		N/U	N/U	N/U	
UD	N/U		N/U		A	A	N/U	
XY	A		N/U		A	A	A	
XZ	N/U		N/U		A	A	A	
ZZ	A		N/U		A	A	A	

NX102 98 Entity Identifier Code

O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
98	A		N/U		A	A	A	

- 1F Alliance
- 21 Small Business
- 27 Small Disadvantaged Business
- 2F State
- 2J Individual
- 2R Federal Facility
- 80 Hospital
- 8E Minority Institution
- 91 Action Party
- 95 Research Institute
- A2 Woman-Owned Business
- A6 Section 8(a) Program Participant Firm
- A8 Nonprofit Institution
- B2 Other Unlisted Type of Organizational Entity
- B9 Large Business
- BZ Business Associate
- C6 Municipality
- C7 County
- C8 City
- H6 School District
- HB Historically Black College or University
- KM Coordinator
- M8 Educational Institution
- T4 Transfer Point
- TR Terminal
- TW Transit Authority
- UD Region
- XY Tribal Government
- XZ American Indian-Owned Business
- ZZ Mutually Defined

NX103

98

Entity Identifier Code

O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
98	A		N/U		A	A	A	

- 1F Alliance
- 21 Small Business
- 27 Small Disadvantaged Business
- 2F State
- 2J Individual
- 2R Federal Facility
- 80 Hospital
- 8E Minority Institution
- 91 Action Party
- 95 Research Institute
- A2 Woman-Owned Business
- A6 Section 8(a) Program Participant Firm
- A8 Nonprofit Institution
- B2 Other Unlisted Type of Organizational Entity
- B9 Large Business
- BZ Business Associate
- C6 Municipality
- C7 County
- C8 City
- H6 School District
- HB Historically Black College or University
- KM Coordinator
- M8 Educational Institution
- T4 Transfer Point
- TR Terminal
- TW Transit Authority
- UD Region
- XY Tribal Government

XZ American Indian-Owned Business
 ZZ Mutually Defined

NX104 98 Entity Identifier Code O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
98	A		N/U		A	A	A	

- 1F Alliance
- 21 Small Business
- 27 Small Disadvantaged Business
- 2F State
- 2J Individual
- 2R Federal Facility
- 80 Hospital
- 8E Minority Institution
- 91 Action Party
- 95 Research Institute
- A2 Woman-Owned Business
- A6 Section 8(a) Program Participant Firm
- A8 Nonprofit Institution
- B2 Other Unlisted Type of Organizational Entity
- B9 Large Business
- BZ Business Associate
- C6 Municipality
- C7 County
- C8 City
- H6 School District
- HB Historically Black College or University
- KM Coordinator
- M8 Educational Institution
- T4 Transfer Point
- TR Terminal
- TW Transit Authority

UD Region
 XY Tribal Government
 XZ American Indian-Owned Business
 ZZ Mutually Defined

NX105 98 Entity Identifier Code O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
98	A		N/U		A	A	A	

1F Alliance
 21 Small Business
 27 Small Disadvantaged Business
 2F State
 2J Individual
 2R Federal Facility
 80 Hospital
 8E Minority Institution
 91 Action Party
 95 Research Institute
 A2 Woman-Owned Business
 A6 Section 8(a) Program Participant Firm
 A8 Nonprofit Institution
 B2 Other Unlisted Type of Organizational Entity
 B9 Large Business
 BZ Business Associate
 C6 Municipality
 C7 County
 C8 City
 H6 School District
 HB Historically Black College or University
 KM Coordinator
 M8 Educational Institution
 T4 Transfer Point

TR	Terminal
TW	Transit Authority
UD	Region
XY	Tribal Government
XZ	American Indian-Owned Business
ZZ	Mutually Defined

Segment: **YNQ** Yes/No Question
Position: 090
Loop: HL
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:

- 1 Only one of YNQ01 YNQ09 or YNQ10 may be present.
- 2 If either YNQ03 or YNQ04 is present, then the other is required.
- 3 If YNQ09 is present, then YNQ08 is required.

Semantic Notes:

- 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
- 2 YNQ10 contains a free-form question when codified questions are not available.

Comments:

Notes: 1. When HL03 is code PC (Project loop), use this segment to indicate Yes/No conditions regarding the grant applicant and, where necessary, to provide explanations.

2. When HL03 is code PD (Procedure Loop), use of this segment is **REQUIRED** if the response to the question J2 is no.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	YNQ01	1321	Condition Indicator	X ID 2/2
			Code indicating a condition	
			1. Use codes only when the organization's response to the question matches the criteria in the code note.	
			2. When a code is used, use YNQ05/06/07 to provide explanations.	
		FG	Application is Certified	
			The applicant certifies compliance with all applicable assurances identified on the Standard Form 424b. Use if the answer is no. A no response requires an explanation.	

- G3 Hazardous Materials are Used or Produced
Are hazardous materials used or produced in the project? Use if the answer is yes.
- G4 Genetically Engineered Organisms are Used or Produced
Are genetically engineered organisms used or produced in the project? Use if the answer is yes.
- G5 This is a Group Proposal
Is this a group application? Use if the answer is yes.
- G6 Historical Sites Are Affected
Are historical sites affected by the project? Use if the answer is yes. A yes response requires an explanation.
- G7 Facilities are Properly Accredited or Authorized
Are facilities properly accredited/authorized for this project? Use if the answer is no. A no response requires an explanation.
- G8 Proprietary or Privileged Information will be contained in the Application
Is proprietary/privileged information included in the application? Use if the answer is yes.
- G9 This Project is in Violation of an Environmental Compliance Regulation
Is this project in violation of any environmental compliance regulation? Use if the answer is yes. A yes response requires an explanation.
- H0 Organization Certifies Compliance with Federal Lobbying Regulations
Does the proposing organization certify compliance with Federal Lobbying Regulations? Use if the answer is no. A no response requires an explanation.
- H1 Project involves the International Cooperative Act
Does this project involve international cooperative activities? Use if the answer is yes.

- H2 Human Anatomical Substances Are Used
Are human anatomical substances used in this project? Use if the answer is yes.
- H4 Lobbying Activities Have Been Conducted Regarding the Proposal
Have lobbying activities been conducted regarding the application? Use if the answer is yes. A yes response requires an explanation.
- H5 Organization Certifies Compliance With the Drug-Free Workplace Act
Does the organization certify compliance with the Drug-Free Workplace Act of 1988? Use if the answer is no. A no response requires an explanation.
- H6 Organization Certifies Compliance with the Code of Federal Regulations Regarding Research Misconduct
Does the organization certify compliance with the Code of Federal Regulations "Responsibility for Public Health Service (PHS) Awardee and Applicant Institutions for Dealing with and Reporting Possible Misconduct in Science" (42 CFR 50 Subpart A)? Use if the answer is no. A no response requires an explanation.
- H7 Organization Provides a Smoke Free Workplace
Does the organization currently provide a smoke-free workplace and/or promote the non-use of tobacco products, or have plans to do so? Use if the answer is no.
- H8 Organization Certifies Compliance with Federal Discrimination Regulations
Does the organization certify compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1975? Use if the answer is no.
- H9 Organization Certifies Compliance with the Code of Federal Regulations Regarding Responsibility of Applicants for Promoting Ob-

- jectivity in Research for which Public Health Service (PHS) Funding is Sought
Does the organization certify compliance with the Code of Federal Regulations "Responsibility of Applicants for Promoting Objectivity in Research for which PHS Funding is Sought" (42 CFR 50, Subpart F) or National Science Foundation Financial Disclosure Policy (National Science Foundation (NSF) Grant Policy Manual, Section 510)? Use if the answer is no. A no response requires an explanation.
- I7 Organization has Delinquent Federal Debts
Does the organization have any delinquent Federal debts? Use if the answer is yes. A yes response requires an explanation.
- I8 Organization has been Placed on the Federal Debarment and Suspension List
Is the organization on the List of Parties Excluded from Federal Procurement and Non-procurement Programs or otherwise been determined NOT in compliance with Executive Orders on Debarment/Suspension? Use if the answer is yes. A yes response requires an explanation.
- J1 Military Services Barred from Recruitment Activities at the Proposing Organization's Site(s)
Are Military Services barred from recruitment activities at the proposing organization's site(s)? Use if the answer is yes. A yes response requires an explanation.
- J2 Rate Negotiated
Does the organization have a patient care rate agreement negotiated with the Department of Health and Human Services? Use if the answer is no. This code is used only in Procedure loops for in-patient human subjects.
- J4 Project Requires Inter-Government Review for Activities that affect State or Local Government or Possible National Security Implications
Does the project require review under Execu-

tive Order No. 12372 for activities that directly affect state or local government or possible national security implications?

a. Cite Y in YNQ02 and identify the review date in YNQ04.

b. Cite N in YNQ02 when the project is subject to the Executive Order but has not been selected for review.

c. Do not use if the answer is No because the project is not covered by the Executive Order.

NR

No Restrictions

Use to indicate that the applying organization gives permission to the Federal Government to announce the award and address-related information regarding the organization. Use if the answer is no.

CODE	DOE	HHS	NIH	DOT	NSF ⁸³	ARO	ONR	AFOSR
FG	A		N/U		N/U	N/U	A	
G3	A		N/U		N/U	A	A	
G4	A		N/U		N/U	A	A	
G5	A		N/U		A	N/U	A	
G6	A		N/U		A	A	A	
G7	A		N/U		N/U	N/U	A	
G8	A		N/U		A	A	A	
G9	A		N/U		A	A	A	
H0	A		N/U		N/U	A	A	
H1	A		N/U		A	N/U	A	
H2	A		A ⁸⁴		A	N/U	A	
H4	A		N/U		A	A	A	
H5	A		N/U		A	A	A	
H6	A		N/U		A	A	A	
H7	A		N/U		N/U	N/U	A	
H8	A		N/U		N/U	A	A	
H9	A		N/U		A	N/U	A	
I7	A		N/U		A	A	A	
I8	A		N/U		A	A	A	
J1	A		N/U		N/U	A	A	
J2	A		N/U		N/U	N/U	A	
J4	A		N/U		A	N/U	A	
NR	A		N/U		N/U	N/U	A	

Must Use YNQ02 1073 Yes/No Condition or Response Code M ID 1/1
 Code indicating a Yes or No condition or response
A Yes/No response relates to the code cited in the immediately preceding YNQ01 data element.

N No
 Y Yes

YNQ03 1250 Date Time Period Format Qualifier X ID 2/3
 Code indicating the date format, time format, or date and time format

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1250	A		N/U		A	A	A	

D8 Date Expressed in Format CCYYMMDD

YNQ04 1251 Date Time Period X AN 1/35
 Expression of a date, a time, or range of dates, times or dates and times
When YNQ01 is code J4 and YNQ02 is code Y, use to identify the review date.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1251	A		N/U		A	A	A	

YNQ05 933 Free-Form Message Text O AN 1/264
 Free-form message text
Use as needed to provide explanatory text related to the codes selected in YNQ01/02. YNQ05/06/07 may be used as a continuous string of text.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
933	A		N/U		A	A	A	

YNQ06 933 Free-Form Message Text O AN 1/264
 Free-form message text

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
933	A		N/U		A	A	A	

YNQ07 933 Free-Form Message Text
Free-form message text

O AN 1/264

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
933	A		N/U		A	A	A	

Segment: **N9 Reference Identification**

Position: 100

Loop: N9

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

- Notes:**
1. Use this N9 loop in various loops as indicated by the N901 codes.
 2. Specifically, use this N9 loop when HL03 is code PC (Project loop), SP (Sub-project loop) and CO (Consortium loop) to provide references and text descriptions related to the project.

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use	N901	M ID 2/3
	128	Reference Identification Qualifier
		Code Qualifying the Reference Identification
	3X	Subcontract Number
		<i>Use this code once only when HL03 is code SP (Sub-project loop) or CO (Consortium loop) to indicate a unique identification number for the sub-project or consortium effort identified in this iteration of the HL loop.</i>
	43	Supporting Document Number
		<i>1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), AS (Animal Subject loop), PD (Procedure loop), or IB (Previous Award loop), use to indicate that a matrix will</i>

follow. For example, when HL03 is code 4, a Gender and Minority inclusion matrix associated with the individuals making up the care group could follow. Cite the word MATRIX in N903 and use the 2/MTX/110 segment to identify the matrix title.

2. Use of the 2/INX/120 loop is REQUIRED to define the matrix.

5S

Processing Area

For nonresearch applications, use to indicate the type of submission as specified in the Federal Agency grant application instructions. This represents the project's purpose, e.g., construction, rehabilitation, planning, etc.

6M

Application Number

1. Use to indicate the application number assigned by a reviewing organization (state, regional council, transit authority, etc.) taking action prior to the submission of the application to a Federal Agency.

2. Identify the reviewing organization in N903.

F4

Facility Certification Number

1. Use to indicate the organization's Assurance of Compliance Number in N902; the type of review (FULL or EXPEDITED) in N903; and identify the Institution Review Board (IRB) approval date in N904.

2. When the number applies to all care groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium (HL03 is code CO).

3. When the number applies to an individual care group, use this code in that Care Group loop (HL03 is code 4).

4. When an IRB approval has not been received, cite the word *PENDING* in N903.
- L4 Proposal Paragraph Number
1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), AS (Animal Subject loop), or PD (Procedure loop), use to indicate that N902 cites the Grant Application paragraph number that identifies the type of text that will appear in the following 2/MTX/110 segment. N903 may be used to provide an applicant-supplied title for that paragraph.
2. This N9/MTX combination provides the text data comprising the statement of work and other textual data associated with the application.
- M7 Medical Assistance Category
- When HL03 is code PD (Procedure loop), use is *REQUIRED* to indicate the type of patient processing. Cite one of the following codes in N902.
- D* for Donors
I for inpatient treatments
O for outpatient treatments
- WI Waiver
1. Use to indicate that the Department of Health and Human Services exemption category (1, 2, 3, 4, 5, or 6) number is cited in N902. See 45 CFR Part 46 for category definitions.
2. When the exemption applies to all care groups, use this code in the Project loop (HL03 is code PC) or in the applicable Sub-project loop (HL03 is code SP).
3. When the number applies to an individual care group, use the code in that Care Group

Y9

loop (HL03 is code 4).

Current Certificate Number

1. *Use to indicate the Animal Welfare Assurance Number. Use N904 to identify the Institutional Animal Care and Use Committee (IACUC) approval date.*

2. *When the number applies to all animal subject groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium (HL03 is code CO).*

3. *When the numbers vary by animal subject groups, use this code in Animal Subject loop (HL03 is code AS).*

4. *When an IACUC approval has not been received, cite the word PENDING in N903.*

YB

Revision Number

When BGN07 is code FM and HL03 is code PC (Project loop), use to indicate the Federal agency identification of a revised budget.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
3X	A		N/U		A	A	A	
43	A		N/U		N/U	A	A	
5S	N/U		N/U		A	N/U	N/U	
6M	N/U		N/U		N/U	N/U	N/U	
F4	A		A		A	N/U	A	
L4	A		A		A	A	A	
M7	A		N/U		N/U	N/U	A	
WI	A		A		A ⁸⁵	N/U	A	
Y9	A		A		A	N/U	A	
YB	A		N/U		N/U	N/U	A	

Must Use N902 **127** **Reference Identification** **X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When N901 is code L4, cite the applicable Grant Application paragraph number from the following list:

Para # Paragraph Title

A Abstract

B Project Description

B.1 Introduction

B.2 Aims

B.3 Background

B.4 Preliminary Studies

B.5 Research Design/Approach

B.6 Bibliography/References

C Project Resources & Environment

C.1 Personnel & Budget Justifications

C.2 Space/Facilities

C.3 Equipment

C.4 Other

C.5 Travel Justification

C.6 Alterations and Renovations

C.7 Supplies

E Explanations

E.1 Cert & Reqs

E.2 Other Commitments

E.3 Mandatory Cost Sharing

E.4 Project Related Income

E.5 Special Project Considerations

E.6 Consortium/Contractual Arrangements

F Special Considerations

F.1 List of Reviewers (Include/Exclude)

F.2 Cover Letter

F.3 Free Text

G Human Subjects

G.1 Care Group

G.1.1 Demographic Information

G.1.2 Inclusion Criteria

G.1.3 Health Status

G.1.4 Description

G.1.5 Rationale For Use

G.1.6 Specimen Sources

G.1.7 Other Support Justification

G.2 Consent Data

G.2.1 Recruitment Procedures

G.2.2 Circumstances Requiring Consent

G.2.3 Documentation Methods

G.2.4 Description of any IRB Waivers

G.3 Care Procedures

G.3.1 Procedure Justification

G.3.2 Procedure Risks

G.3.3 Likelihood of Risks

G.3.4 Seriousness of Risks

G.3.5 Alternative Treatments

G.3.6 Risks/Benefits Assessment

G.3.7 Protections Against Risks

G.3.8 Data Monitoring Techniques

G.3.9 Intervention

G.4 Donors

G.4.2 Donor Justification

G.5 Test Article

G.5.1 Test Article Name

G.5.2 Test Article Status (30-day Interval)

G.5.3 FDA Restrictions on Use

H Animals

H.1 Species Description

H.1.1 Purpose & Rationale

H.1.2 Housing Explanation

- H.2 *Veterinary Care*
- H.3 *Procedures to Limit Discomfort*
- H.4 *Euthanasia*
 - H.4.1 *Description*
 - H.4.2 *Rationale*
- H.5 *Noncompliance Explanation*

- I *Progress Report*
 - I.1 *Specific Aims*
 - I.2 *Results & Significance*
 - I.3 *Plans*
 - I.3.1 *Plans Specific Aims*
 - I.3.2 *Human Subject Changes*
 - I.3.3 *Invertebrate Animal Changes*
 - I.4 *Project Generated Resources*
 - I.5 *Significant Unobligated Balances*
 - I.6 *Inventions (Title, Name of inventor(s))*

- J *Special Program Cross-Cuts*
 - J.1 *Beginning Investigator*
 - J.2 *Small Grant For Exploratory Research*
 - J.4 *Facilitation for Scientific & Engineers with Disabilities*
 - J.5 *Research Opportunity Award*
 - J.6 *Single Investigator*
 - J.7 *Young Investigator*
 - J.8 *Short-term Innovative Research Program*
 - J.9 *Research Instrumentation Program*
 - J.10 *Historically Black College or University/Minority Institution Award*

- K *Research Career Award*
 - K.1 *The Candidate*
 - K.1.1 *Letters of Reference*
 - K.1.2 *Candidate's Background*
 - K.1.3 *Career Goals and Objectives: Scientific Biography*
 - K.1.4 *Career Development Activities during Award Period*
 - K.2 *Statements by Sponsors, Consultants, and Collaborators*
 - K.3 *Environment and Institutional Commitment to Candi-*

date

K.3.1 Description of Institutional Environment

K.3.2 Institutional Commitment

L Research Training Program Plan

L.1 Introduction to Revised Application

L.2 Introduction to Supplemental Application

L.3 Background

L.4 Program Plan

L.4.1 Program Direction

L.4.2 Program Faculty

L.4.3 Proposed Training

L.4.4 Trainee Candidates

L.5 Recruitment of Individuals

L.6 Responsible Conduct of Research

M Potential Applications of Research

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A		A ⁸⁶		A ⁸⁷	A	A	

N903 369 Free-form Description X AN 1/45

Free-form descriptive text

1. When N901 is code L4, use to identify the Grant Application paragraph title or an alternative title preferred by the grant applicant.

2. When N901 code F4, use to identify the type of IRB review. Cite either the word FULL or EXPEDITED.

3. When N901 is code 6M, use to identify the reviewing organization. For a state government, cite only the two position postal code abbreviation for the state, e.g., CA, KS, FL, VT, etc.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
369	A		A ⁸⁸		A ⁸⁹	A	A	

N904 373 Date O DT 6/6

Date (YYMMDD)

1. When HL03 is code 4 (Care Group loop) and N901 is code F4, use to identify the IRB approval date.

2. When HL03 is code AS (Animal Subject loop) and N901 is code Y9, use to identify the IACUC approval date.

3. When N901 is code 6M, use to identify the date approved by the reviewing organization.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
373	A		A ⁹⁰		A	A	A	

Segment: **L11 Business Instructions**
Position: 105
Loop: N9
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify instructions in this business relationship
Syntax Notes: 1 At least one of L1101 or L1103 is required.
 2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: *When N901 is code 43, use to identify the brand name of the spreadsheet software and its version and release number.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
L11 ⁹¹	N/U		N/U		N/U	N/U	N/U	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
L1101	127	Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
L1102	128	Reference Identification Qualifier	X ID 2/3
		Code Qualifying the Reference Identification	
		ZS Software Application Number	
		<i>Use to indicate the brand name of the spreadsheet software and its version and release number. For example, Excel 4.0.</i>	

Segment: **MTX** Text
Position: 110
Loop: N9
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes: 1 If MTX01 is present, then MTX02 is required.
 2 If MTX03 is present, then MTX02 is required.

Semantic Notes:

Comments:

- Notes:**
1. When N901 is code 43, use this MTX segment to provide matrix title.
 2. When N901 is code L4, use this segment to provide text that is associated with the Grant Application paragraph number cited in N902.

Data Element Summary

Ref.	Data							
Des.	Element	Name						Attributes
Must Use	MTX02	1551	Message Text					X AN 1/4096
			To transmit large volumes of message text					

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1551	A		A ⁹² A		A	A	A	

MTX03	1551	Message Text						O AN 1/4096
		To transmit large volumes of message text						

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1551	A		N/U		A	A	A	

Segment: **INX** Index Detail
Position: 120
Loop: INX
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify an index
Syntax Notes:

- 1 If either C03602 or C03603 is present, then the other is required.
- 2 At least one of C03602 or C03604 is required.
- 3 If either C03604 or C03605 is present, then the other is required.

Semantic Notes:

Comments:

- Notes:**
1. *When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), AS (Animal Subject loop), PD (Procedure loop), or IB (Previous Award loop), use to identify data in a matrix (spreadsheet) format.*
 2. *Use this INX segment to define the pattern and range of cells within the matrix and the 2/K3/130 segment to define the content of the cell(s) specified by the INX.*
 3. *For purposes of this IC, cells will be identified in a manner typical of computer spreadsheets. That is, the columns will be identified by a letter A, B, C ... and the rows by a number 1, 2, 3 ... The column and row titles (text descriptions) are REQUIRED to be included in the matrix. In specifying ranges it is not necessary to specify a continuous series of cells within a row or column; they can be broken into subsets. However, when all iterations of the INX loop are complete, the entire matrix should be complete.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
INX	A		N/U		A	A	A	

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	INX01	1550	Index Qualifier
			M ID 1/2
		Code identifying an index	
		<p>1. Use code 1 or 2 once per matrix to indicate the start of the matrix. Use multiple iterations as needed citing codes 3 or 4 to define additional cell ranges to be loaded within a single matrix.</p> <p>2. In an absolute reference (codes 1 and 3) use the alphanumeric identifiers (e.g., A1) in INX02-2 and INX02-3 to identify the range of cells to be loaded.</p> <p>3. In a relative reference (codes 2 and 4), use the alphanumeric identifier, e.g., B3, in INX02-2 to identify the specific cell to start at and in INX02-3, provide a count of cells to load starting from that location.</p> <p>4. EXAMPLE OF AN ABSOLUTE LOAD PATTERN LOADING 15 CELLS (A1...E1, A2...E2, A3...E3): INX*1*1:A1:E3 n/l</p> <p>5. EXAMPLE OF A RELATIVE LOAD PATTERN THAT STARTS AT CELL B3 AND LOADS 3 CELLS TOP TO BOTTOM: INX*2*3:B3:3 n/l</p>	
		1	Matrix Start - Absolute Reference
		2	Matrix Start - Relative Reference
		3	Matrix Continuation - Absolute Reference
		4	Matrix Continuation - Relative Reference
Must Use	INX02	C036	Index Identification
			M
		To identify an index	
	C03601	1395	Configuration Type Code
			O ID 1/1
		Code defining how information is being grouped or arrayed	
		Use to indicate the pattern of loading the cells.	
		1	Horizontal, Left to Right
		2	Horizontal, Right to Left

- 3 Vertical, Top to Bottom
- 4 Vertical, Bottom to Top
- 5 Individual Cell

C03602	127	Reference Identification	X AN 1/30
<p>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p> <p><i>In either an absolute or relative reference, use to identify the cell that begins the range of a load operation, e.g., B3.</i></p>			
C03603	127	Reference Identification	X AN 1/30
<p>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p> <p><i>1. When INX01 is code 1 or 3 (absolute reference), use to describe the cell which ends this iteration of the load operation, e.g., E3.</i></p> <p><i>2. When INX01 is code 2 or 4 (relative reference), use to provide a count of the number of cells from the specified start to be loaded.</i></p>			
C03604	863	X-Peg	X R 1/6
<p>Horizontal distance from the edge to the center of the peg hole (measured from the left)</p> <p><i>Use only when INX02-1 is code 5 (individual cell) to identify the column letter of a single cell to be loaded.</i></p>			
C03605	864	Y-Peg	X R 1/6
<p>The vertical distance from the edge to the center of the peg hole as specified by the peg code</p> <p><i>Use only when INX02-1 is code 5 (individual cell) to identify the row number of a single cell to be loaded.</i></p>			

Segment: **K3** File Information

Position: 130

Loop: INX

Level: Detail

Usage: Mandatory

Max Use: >1

Purpose: To transmit a fixed-format record or matrix contents

Syntax Notes:

Semantic Notes: 1 K303 identifies the value of the index.

Comments: 1 The default for K302 is content.

Notes: *Use multiple repetitions as needed of this K3 segment within a 2/INX/120 loop iteration to identify each cell within the beginning and ending range identified by the INX segment.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
K3	A		N/U		N/U	A	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	K301	449	Fixed Format Information
			M AN 1/80
			Data in fixed format agreed upon by sender and receiver
			<i>Use to identify the cell contents.</i>

Segment: **PPL Price Support Data**
Position: 170
Loop: PPL
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide information about pricing support

Syntax Notes:

Semantic Notes: 1 PPL02 is the start date.
 2 PPL03 is the end date.

Comments:

Notes: 1. When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop), use of this segment is **REQUIRED** to provide project total price. Use a single iteration of this PPL loop and within it a single iteration of the 2/PD/190 loop to provide this project total price.

2. When detailed budget data is being provided in this transaction set, use subsequent iterations of the PPL loop to identify each budget period (e.g., a project with a planned duration of 2 budget periods would utilize 3 iterations of the PPL loop). Use the 2/PD/190 loop to provide costs for specific budget categories (salaries, equipment, etc.).

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
PPL	A		A		A	A	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
PPL04	352	Description	O AN 1/80
		A free-form description to clarify the related data elements and their content	
		1. In one iteration of this PPL segment within the Project and any Subproject and Consortium loops, the letter T is REQUIRED to indicate the total project price. When instructed in the solicitation or announcement, also provide the project totals by category.	
		2. When data is being provided by budget period in additional PPL segment iterations, cite 1, 2, 3, etc. to identify the budget periods.	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
352	A		A ⁹³		A ⁹⁴	A	A	

Must Use PPL05 1401 Proposal Data Detail Identifier Code O ID 1/3

Code identifying the basis of a cited value in a proposal

Use to indicate whether the values in PD/PDD are the actual unadjusted cost for the budget item without reductions to accommodate nonFederal cost sharing contributions or the requested cost for the budget item with reductions to accommodate nonFederal cost sharing contributions.

AA Actual Amount

Use to indicate that the values in PD/PDD are the actual unadjusted cost for the budget item. No reductions have been made to accommodate nonFederal cost sharing contributions (code 88).

AC Negotiated Amount

Use to indicate that the values in PD/PDD are the requested cost for the budget item. Reductions have been made to accommodate nonFederal cost sharing contributions (code 88).

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
AA	A		N/U		N/U	A	A	
AC	A		A		A	A	A	

Segment: **PD Pricing Data**
Position: 190
Loop: PD
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe the pricing basic input detail

Syntax Notes:

- Semantic Notes:**
- 1 PD01 is the unit of the time period contained in PD02.
 - 2 PD02 is the date of the start of the time period in PD01.
 - 3 PD04 is the quantity of the unit of measurement in PD03.
 - 4 PD05 is the name of the cost element being proposed.
 - 5 PD06 is the description of the name of the cost element being proposed.
 - 6 PD08 is a reference to a specific paragraph number contained in an external document.
 - 7 PD09 is the category of the data being proposed.

Comments:

Notes: *Use this PD loop to identify budget categories, rates, and totals associated with a category. Use the PD segment to identify the name of a category and the PDD segment to identify the amounts budgeted for the category*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PD01	344	Unit of Time Period or Interval M ID 2/2 Code indicating the time period or interval 1. <i>Cite the appropriate code to indicate the period defined for this budget category.</i> 2. <i>For budget categories where a period is NOT applicable (e.g., supplies, equipment), cite code CC in order to meet the X12 syntax requirements of this data element.</i> AP Academic Period CC Cycles <i>Use to indicate a budget period not described by another code.</i>

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
380	A		A ¹⁰²		A ¹⁰³	A	A	

Must Use PD05 93 Name M AN 1/35

Free-form name

1. Use is **REQUIRED** to identify a budget category by a "short-hand" or coded means.

2. If desired, this name can be taken from the organization's cost accounting system.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
93	A		A ¹⁰⁴		A ¹⁰⁵	A	A	

PD06 352 Description O AN 1/80

A free-form description to clarify the related data elements and their content

When PD05 carries a short-hand description taken from a cost accounting system that is not readily understandable, use to identify the budget category in a free-form text "long-hand" description. A "long-hand" description only needs to be provided the first time the "short-hand" name is used.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
352	A		N/U		N/U	A	A	

Must Use PD07 1196 Breakdown Structure Detail Code O ID 2/2

Codes identifying details relating to a reporting breakdown structure tree

Use to identify the budget category or aggregated costs applicable to this PD loop.

01 Labor

Use to indicate direct labor wage/salary. Aggregate direct labor wage/salary into Total Direct Labor (code 70).

03 Other Direct Costs (ODC)

Use to indicate the Total Other Direct Costs.

- This is the sum of codes 04, 39, 43, 46, 55, 80, 81, 82, 86, 87, and ZZ. Aggregate this sum into Total Direct Costs (code 84).*
- 04 Subcontract
1. When HL03 is code PC (Project loop), use to indicate the sum of all subawards within the Project. Aggregate into Total Other Direct Costs (code 03).
2. When HL03 is code SP (Sub-project loop) or CO (consortium loop), use to indicate subcontracts and second-tier consortium contracts budgeted within this loop. Aggregate into Total Other Direct Costs (code 03).
- 06 Labor Overhead
Use to indicate Labor Overhead (excludes fringe benefits). Aggregate into Total Indirect Costs (code 09).
- 09 Total Overhead
Use to indicate the Total Indirect Costs. This is either the sum of Labor Overhead (code 06) and General and Administrative (G&A) (code 33) or a discrete amount. Aggregate into Total Cost (code 38).
- 18 Funds Appropriation
Use to indicate a cash contribution. Aggregate all cash contributions in Total Contribution (code 88).
- 28 Total
Use to indicate the Total Amount Requested. This is the sum of the Total Cost (code 38) and any applicable Profit or Fee (code 35). Aggregate into Total Project Cost (code 36).
- 33 General & Administrative
Aggregate into Total Indirect Costs (code 09).
- 35 Profit or Fee
Use in SBIR, STTR, and other appropriate applications to indicate a fixed-fee. Aggregate into Total Amount Requested (code 28).
- 36 Total Price
Use to indicate the Total Project Cost. Total Project Cost is the sum of Total Amount Re-

- 38 *requested (code 28) and the Cost Sharing contribution (code 88).*
Total Cost Plus General & Administrative
Use to indicate Total Cost. This is the sum of Total Direct Costs (code 84) and Total Indirect Costs (code 09). Aggregate into Total Amount Requested (code 28).
- 39 Other Costs
Use to indicate items within Other Direct Costs that are not identified by a specific code. Aggregate into Total Other Direct Costs (code 03).
- 42 Purchased Equipment
Use to indicate the acquisition of permanent equipment. Aggregate into Total Purchased Equipment (code 72).
- 43 Materials and Purchased Items
Use to indicate total material and supplies. Do not itemize the individual items. Aggregate into Total Other Direct Costs (code 03).
- 46 Commercial Effort
Use to indicate costs associated with ancillary service contracts. Aggregate into Total Other Direct Costs (code 03).
- 48 Indirect Labor
Use to indicate Total Fringe Benefits. This is the sum of all Employee Benefits (code 49). Aggregate into Total Labor Costs (code 71).
- 49 Employee Benefits
Use to indicate individual or labor category fringe benefits. Aggregate into Total Fringe Benefits (code 48).
- 52 Communications and Travel
Use to indicate Total Travel. This is the sum of domestic travel (code 73) and foreign travel (code 74). Aggregate into Total Direct Costs (code 84).
- 55 Facilities - Furniture and Equipment
Use to indicate the cost of equipment maintenance. Aggregate into Total Other Direct Costs (code 03).

- 56 Administration
Use to indicate Participant insurance. Aggregate into Participant Total Costs (code 79).
- 58 Credits
Use to indicate participant fees. Aggregate into Participant Total Costs (code 79).
- 70 Total Salaries and Wages
Use to indicate Total Direct Labor. This is the sum of all Labor (code 01). Aggregate into Total Labor Costs (code 71).
- 71 Total Salaries and Wages and Employee Benefits
Use to indicate Total Labor Costs. This is the sum of Total Direct Labor Costs (code 70) and Total Fringe Benefits (code 48). Aggregate into Total Direct Costs (code 84).
- 72 Total Purchased Equipment
Use to indicate Total Purchased Equipment. This is the sum of all Purchased Equipment (code 42). Aggregate into Total Direct Costs (code 84).
- 73 Travel - Domestic
Aggregate into Total Travel (code 52).
- 74 Travel - Foreign
Aggregate into Total Travel (code 52).
- 75 Participant Stipends
Aggregate into Participant Total Costs (code 79).
- 76 Participant Tuition & Fees
Use to indicate participant tuition. Aggregate into Participant Total Costs (code 79).
- 77 Participant Travel
Aggregate into Participant Total Costs (code 79).
- 78 Participant Other
Includes training related expenses. Aggregate into Participant Total Costs (code 79).
- 79 Participant Total
Use to indicate Participant Total Costs. This

- is the sum of codes 56, 58, 75, 76, 77, 78, and EX. Aggregate into Total Direct Costs (code 84).*
- 80 Publication Costs
Aggregate into Total Other Direct Costs (code 03).
- 81 Consultant Services
Aggregate into Total Other Direct Costs (code 03).
- 82 Computer Automated Data Processing (ADP) Services
Aggregate into Total Other Direct Costs (code 03).
- 83 Funding From Non-Federal Sources
Use to indicate an in-kind contribution. Aggregate all in-kind contributions in Total Contribution (code 88).
- 84 Total Direct Costs
Use to indicate Total Direct Costs. This is the sum of codes 03, 52, 71, 72, 79, 85 and BL. Aggregate into Total Costs (code 38).
- 85 Human Subject Costs
Use to indicate the total inpatient costs. Aggregate into Total Direct Costs (code 84).
- 86 Animal Costs
Aggregate into Total Other Direct Costs (code 03).
- 87 Alternations and Renovations
Aggregate into Total Other Direct Costs (code 03).
- 88 Cost Sharing
1. Use to indicate the grant applicant organization's Total Contribution to the project; this includes cash (code 18) and in-kind contributions (code 83) from non-Federal sources.
2. When PPL05 is code AA, this is a negative amount.
3. When PPL05 is code AC, this is a positive amount.

- BL** Billings
Use to indicate the total outpatient costs. Aggregate into Total Direct Costs (code 84).
- EX** Expenditures
Use to indicate participant subsistence. Aggregate into Participant Total Costs (code 79).
- ZZ** Mutually Defined
Use to indicate rent/lease of equipment/facilities. Aggregate into Total Other Direct Costs (code 03).

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
01	A		A		A	A	A	
03	A		A		A ¹⁰⁶	A	A	
04	A		A		A ¹⁰⁷	A	A	
06	A		A		A	A	A	
09	A		A		A ¹⁰⁸	A	A	
18	A		N/U		N/U	A	A	
28	A		A		A ¹⁰⁹	A	A	
33	A		A		A	A	A	
35	A		N/U		A	A	A	
36	A		A		N/U	A	A	
38	A		A		A ¹¹⁰	A	A	
39	A		A		A ¹¹¹	A	A	
42	A		A		A ¹¹²	A	A	
43	A		A		A ¹¹³	A	A	
46	A		A		N/U	A	A	
48	A		A		A ¹¹⁴	A	A	
49	A		A		A	A	A	
52	A		A		A	A	A	
55	A		A		N/U	A	A	
56	A		N/U		N/U	A	A	
58	A		N/U		N/U	A	A	
70	A		A		A ¹¹⁵	A	A	
71	A		A		A ¹¹⁶	A	A	
72	A		A		A ¹¹⁷	A	A	
73	A		N/U		A ¹¹⁸	A	A	
74	A		N/U		A ¹¹⁹	A	A	
75	A		N/U		A ¹²⁰	A	A	
76	A		N/U		N/U	A	A	

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
77	A		N/U		A ¹²¹	A	A	
78	A		N/U		A ¹²²	A	A	
79	A		N/U		A ¹²³	A	A	
80	A		A		A ¹²⁴	A	A	
81	A		A		A ¹²⁵	A	A	
82	A		A		A ¹²⁶	A	A	
83	A		N/U		A ¹²⁷	A	A	
84	A		A		A ¹²⁸	A	A	
85	A		A		N/U	N/U	A	
86	A		A		N/U	N/U	A	
87	A		A		N/U	A	A	
88	A		N/U		A ¹²⁹	A	A	
BL	A		A		N/U	N/U	A	
EX	A		N/U		A ¹³⁰	A	A	
ZZ	A		A		N/U	A	A	

PD08 127 Reference Identification O AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When PD07 is code 01 or 49, and PD09 is a project role, use is **REQUIRED** to identify the name of the individual. Use of last name, first name and middle initial is preferred. Place a space between the name components.

2. When PD07 is code 01 or 49 and PD09 is a labor category, use is **REQUIRED** to identify the number of persons budgeted within that category. In addition to project employee categories, this includes categories for trainees, participants, and consultants.

3. For other PD07 categories, use as needed to identify a named individual to whom the cost pertains

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A		A ¹³¹		A ¹³²	A	A	

PD09 352 Description O AN 1/80

A free-form description to clarify the related data elements and their content

1. When PD07 is code 01 or 49, use is *REQUIRED* to identify the project role of the individual named in PD08 or a labor category. For labor categories, include words that describe the type of personnel (e.g., graduate students, donors, speakers, trainees, participants, clerical support, lab technicians) and identify the number of persons budgeted within the category in PD08.

2. When PD07 is code 73, or 74, use to identify the destination for the travel.

3. When PD07 is code 42, use is *REQUIRED* to identify the nomenclature of the equipment being purchased.

4. When PD07 is code 18 or 83, use as needed to identify the source of the contribution, e.g., applicant, state, county, etc.

5. For other PD07 categories, use as needed to provide additional information necessary to describe the category.

6. For other categories, use to provide additional information necessary to describe the category, as needed, including the identification of a named individual to whom the cost pertains.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
352	A		¹³³ A		¹³⁴ A	A		A

Segment: **PDD Pricing Data Detail**

Position: 200

Loop: PD

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To provide the rates, direct input, and pricing factors for each element of work, cross-referenced to an applicable request or submission

Syntax Notes: 1 At least one of PDD02 PDD03 or PDD04 is required.

Semantic Notes: 1 PDD01 is a sequential number assigned by the initiator.

Comments:

Notes: 1. Use of this PDD segment is *REQUIRED* for each iteration of the PD segment.

2. Use of this PDD segment is *LIMITED* to ONE occurrence per PD loop iteration.

Data Element Summary

Ref.	Data			Attributes
Des.	Element	Name		
Must Use	PDD01	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			<i>Use is REQUIRED to identify the number of months in the period specified in PD01.</i>	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
350	A		A ¹³⁵ A		A	A	A	

PDD02 **380** **Quantity** **X R 1/15**

Numeric value of quantity

1. When PD03-1 is code P1, use to indicate the base amount in dollars.

2. When PD03-1 is code DO and PD03-4 is code 8S, use to indicate the level of effort in months for the period.

3. When PD03-1 is code DO and PD03-4 is code HR, MO, or

YR, use to indicate the quantity of the time units applicable to the rate in PD04.

4. When PD07 is code 79, use to identify the total quantity of subjects.

5. When PD07 is code 42, use to identify the quantity of items being purchased, if applicable.

6. When PD07 is code 73 or 74, use to identify the total quantity of trips.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
380	A		¹³⁶ A		¹³⁷ A	A	A	

Must Use PDD03 782 Monetary Amount X R 1/15

Monetary amount

1. Use to identify the amount requested for the budget category in PD07.

2. When PD07 is code 83 or 88, use to identify the amount contributed.

3. When PD03-1 is code P1, identify the product of the rate in PD04 times the base amount in PDD02.

PDD04 954 Percent X R 1/10

Percentage expressed as a decimal

When PD03-1 is code DO and PD03-4 is code 8S, use with key personnel to indicate their average level of effort for the period. Cite 50% as 50; cite 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).

Segment: **LX** Assigned Number
Position: 330
Loop: LX
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set

Syntax Notes:

Semantic Notes:

Comments:

Notes: *Use this LX loop to provide information regarding individuals and organizations associated with the project.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
LX	A		A		A	A	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LX01	554	Assigned Number
			M N0 1/6
			Number assigned for differentiation within a transaction set
			<i>In the first iteration of this LX loop, cite 1. In each subsequent iteration, increment by 1.</i>

- Segment:** **NM1 Individual or Organizational Name**
- Position:** 340
- Loop:** LX
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To supply the full name of an individual or organizational entity
- Syntax Notes:**
- 1 If either NM108 or NM109 is present, then the other is required.
 - 2 If NM111 is present, then NM110 is required.
- Semantic Notes:**
- 1 NM102 qualifies NM103.
- Comments:**
- 1 NM110 and NM111 further define the type of entity in NM101.
- Notes:**
1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use of this segment is *REQUIRED* to identify all key personnel and their biographical data. A single use of code 9P is *REQUIRED* and may only be used when HL03 is code PC (Project loop). Use codes 17, 61, 9K, 9S, and EY as needed. Use code K8 to identify the Federal agency with whom indirect rates were negotiated.
 2. When HL03 is code SP (Sub-project loop), use code 1P as needed to identify the responsible organization.
 3. When HL03 is code CO (Consortium loop), use code 1P and 75 to identify the responsible and participating organizations.
 4. When HL03 is code IB (Previous Award loop), use is *REQUIRED* to identify all personnel participating in the previously awarded project. Use of code 9P is *REQUIRED*; use codes 9K, 9S, and EY as needed. Also use code AZ to indicate a change in principal investigators, if applicable.
 5. When HL03 is code PD (Procedure loop) or AS (Animal Subject loop), use of this segment is *REQUIRED* with code 61 to identify the facility(s) where procedures will be performed or where animals will be housed.
 6. When HL03 is code 26 (Key Person loop), use of this segment is *REQUIRED* to identify the Key Person, using code 9K. Use of this NM1 segment is *LIMITED* to ONE occurrence per Key Person loop.
 7. When HL03 is code OS (Other Support loop), use of this segment with code 92 is *REQUIRED* to indicate the supporting organization. If the individual in the parent Key Person loop is not the Other Support project

principal investigator, also use code 9P to identify the principal investigator's name.

8. NM101 codes 9P, 9S, and AZ require:
- a. an individual to be named (use NM103/04/05/06/07);
 - b. their affiliated organization if different than the applicant organization (use NM108/09 or N2);
 - c. their position title (use N9).

9. For NM101 codes 17, 9K, and EY provide to the extent known:
- a. an individual to be named (use NM103/04/05/06/07);
 - b. their affiliated organization (use NM108/09 or N2);
 - c. their position title (use N9).

The project role of the individual is **REQUIRED** in EMS01.

10. When NM101 is code 1P, 20, 61, 75, 92, and K8, use to identify an organization. Whenever possible, identify the organization using only a qualifier and number in NM108/09. The organization's full address was established at the time of registration as a Federal Government trading partner. Where no qualified number is available, specify the organization's name in the NM103 (and N2 as needed) and the full address in N3-N4.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
NM1	A	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	Entity Identifier Code
			Code identifying an organizational entity, a physical location, or an individual
		17	Consultant's Office
			When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use multiple occurrences as needed to indicate the name of a consultant. DO NOT USE if the consultant is identified as a key person (code 9K).

- 1P Provider
When HL03 is code SP (Sub-project loop), or CO (Consortium loop), use to indicate the organization responsible for the Subproject or Consortium if different from the organization submitting the application (NM101 code SE in the 1/NM1/090 segment).
- 20 Foreign Supplier
When 2/YNQ/090 is code H1, use multiple iterations as needed to indicate foreign organizations participating in the application.
- 61 Performed At
 1. *When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or OS (Other Support loop), use multiple iterations as needed to indicate the location(s) where project work will be performed if different from or in addition to the location identified by NM101 code 1P or NM101 code SE in the 1/NM1/090 segment.*
 2. *When HL03 is code PD (Procedure loop), use to indicate the hospital where in-patient care group members will receive care or out-patient procedures will be performed.*
 3. *When HL03 is code AS (Animal Subject loop), use is REQUIRED to indicate the facility where the tests will be conducted or where animals will be housed.*
- 75 Participant
When HL03 is code CO (Consortium loop), use multiple iterations as needed to indicate the participating organizations within the consortium in addition to the organization identified by NM101 code 1P.
- 92 Support Party
When HL03 is code OS (Other Support loop), use is REQUIRED to identify the active, pending, or planned support organization.

- 9K Key Person
When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 26 (Key Person loop), or IB (Previous Award loop), use to indicate a project Key Person.
- 9P Investigator
1. *When HL03 is code PC (Project loop) or IB (Previous Award loop), use is REQUIRED to indicate the Principal Investigator. There can only be one Principal Investigator in the PC or IB loop.*
 2. *When HL03 is code OS (Other Support loop) and the individual in the parent Key Person loop is not the Other Support project principal investigator, use to identify the principal investigator's name.*
 3. *This code may only be used when HL03 is code PC, IB, or OS.*
- 9S Co-Investigator
When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop), use to indicate a co-investigator.
- AZ Previous Name
When HL03 is code IB (Previous Award loop), use to indicate a predecessor principal investigator in the previous award.
- EY Employee Name
1. *When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop), use to indicate employees (nonclerical) other than principal and co-investigators and Key Personnel.*
 2. *For Previous Award loops, cite each employee by individual name.*

K8

Filing Location

When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), use to indicate the Department of Health and Human Services (DHHS) regional office or other organization with whom the indirect rate has been negotiated.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
17					A	A		
1P					A	A		
20					A	A		
61					A	A		
75					A	A		
92					A	A		
9K					A	A		
9P					A	A		
9S					A	A		
AZ					A	N/U		
EY					N/U	A		
K8					A	A		

Must Use NM102 1065 Entity Type Qualifier M ID 1/1

Code qualifying the type of entity

1 Person

Use is REQUIRED with NM101 code 17, 9K, 9P, 9S, AZ, and EY.

2 Non-Person Entity

Use is REQUIRED with NM101 codes 1P, 20, 61, 75, 92, and K8.

NM103 1035 Name Last or Organization Name O AN 1/35

Individual last name or organizational name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1035					A	A		

NM104 1036 Name First O AN 1/25

Individual first name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1036					A	A		

NM105 1037 Name Middle **O AN 1/25**
 Individual middle name or initial

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1037					A	A		

NM106 1038 Name Prefix **O AN 1/10**
 Prefix to individual name

NM107 1039 Name Suffix **O AN 1/10**
 Suffix to individual name

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1039					A	A		

NM108 66 Identification Code Qualifier **X ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use to indicate a DoD or Civilian Agency Activity Address.

33

Commercial and Government Entity (CAGE)
 Use to indicate the specified organization's
 CAGE code.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1					A	M		
9					A	A		
10	N/U	N/U	N/U	N/U	N/U	A		
33	N/U	N/U	N/U	N/U	N/U	M		

NM109

67

Identification Code

X AN 2/20

Code identifying a party or other code

Segment: N2 Additional Name Information
Position: 350
Loop: LX
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use N201	93 Name Free-form name	M AN 1/35
N202	93 Name Free-form name	O AN 1/35

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
93					A	A		
93					A	A		

Segment: N3 Address Information
Position: 360
Loop: LX
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	N301	166	Address Information Address information	M AN 1/35
	N302	166	Address Information Address information	O AN 1/35

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
166					A	A		
166					A	A		

N403 116 Postal Code O ID 3/15

Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
116					A	A		

N404 26 Country Code O ID 2/3

Code identifying the country

Use is REQUIRED when NM101 is code 20 and the organization is not identified by a qualified number in NM108/09.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
26					A	A		

N405 309 Location Qualifier X ID 1/2

Code identifying type of location

CY County/Parish

When NM101 is code 61, use to indicate the county in which the project will be performed as specified in the Federal Agency grant application instructions.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
CY					A	A		

N406 310 Location Identifier O AN 1/30

Code which identifies a specific location

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
310 ¹³⁸					A	A		

Segment: **PER** Administrative Communications Contact
Position: 375
Loop: LX
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *When NM101 code 9P or 9S, use is REQUIRED to provide communications numbers associated with the Principal Investigator and all Co-Investigators.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
PER					A	A		

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use PER01	366	Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		IC Information Contact	

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
IC					A	A		

Must Use PER03	365	Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		<i>1. Use to identify the preferred method of communication in the first occurrence. Use PER05/06 and PER07/08 to identify additional communications numbers.</i>	
		<i>2. All numbers, other than those associated with code EM, shall</i>	

be transmitted as a continuous number with no extraneous characters.

EM Electronic Mail

FX Facsimile

Include area code and number.

IT International Telephone

Include country and city codes as needed.

TE Telephone

Include area code and number.

Must Use PER04 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable

PER05 365 Communication Number Qualifier X ID 2/2
 Code identifying the type of communication number
1. Use to identify an alternate, or secondary, communications number which can be used to contact the specified POC.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM Electronic Mail

EX Telephone Extension

Use only if PER03 cites the code TE.

FX Facsimile

Include area code and number.

IT International Telephone

Include country and city codes as needed.

TE Telephone

Include area code and number.

PER06 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable

PER07 365 Communication Number Qualifier X ID 2/2
 Code identifying the type of communication number

1. Use to identify a third communications number.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM	Electronic Mail
EX	Telephone Extension <i>Use only if PER05 cites code TE.</i>
FX	Facsimile <i>Include area code and number.</i>
IT	International Telephone <i>Include country and city codes as needed.</i>
TE	Telephone <i>Include area code and number.</i>

PER08 **364** **Communication Number** **X AN 1/80**
Complete communications number including country or area code when applicable

Segment: **DMG Demographic Information**

Position: 380

Loop: LX

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To supply demographic information

Syntax Notes: 1 If either DMG01 or DMG02 is present, then the other is required.

Semantic Notes: 1 DMG02 is the date of birth.
 2 DMG07 is the country of citizenship.
 3 DMG09 is the age in years.

Comments:

Notes: *When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop) and NM101 is code 9P or 9S, use is REQUIRED to provide the citizenship status of the Principal Investigator and any Co-investigators. It may optionally be used to provide other demographic information.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
DMG	A		A ¹³⁹		A ¹⁴⁰	N/U	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
DMG03	1068	Gender Code	O ID 1/1
		Code indicating the sex of the individual	
		F Female	
		M Male	
DMG05	1109	Race or Ethnicity Code	O ID 1/1
		Code indicating the racial or ethnic background of a person; it is normally self-reported; Under certain circumstances this information is collected for United States Government statistical purposes	
		A Asian or Pacific Islander	
		<i>Use only for Asian. Use code P for Pacific Islander.</i>	
		H Hispanic	
		I American Indian or Alaskan Native	

- N Black (Non-Hispanic)
- O White (Non-Hispanic)
- P Pacific Islander

DMG06 1066 Citizenship Status Code O ID 1/2

Code indicating citizenship status

When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop) and NM101 is code 9P or 9S, use is REQUIRED to provide citizenship status regarding the Principal Investigator and any Co-investigators.

- 1 U.S. Citizen
- 2 Non-Resident Alien
- 3 Resident Alien

Use to indicate the Principal Investigator or Co-investigator is not a US citizen but has been lawfully admitted to the US for permanent residence.

Segment: **EMS** Employment Position
Position: 390
Loop: LX
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe employment position
Syntax Notes: 1 If either EMS05 or EMS06 is present, then the other is required.
Semantic Notes: 1 EMS01 describes the employee's title or position in text.
 2 EMS02 defines the employment position relationship.
 3 EMS03 defines the occupation category.
 4 EMS04 defines the status of employment.
 5 EMS05 identifies EMS06 as pay grade.
 6 EMS06 defines pay grade for employee, if available.

Comments:

- Notes:**
1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop) and NM101 is code 17, 9K, or EY, use of this segment is **REQUIRED** to identify the project role for the individual identified in NM103.
 2. When HL03 is code PC (Project loop), use, if applicable, to indicate that the Principal Investigator (code 9P) or Co-Investigator (9S) is handicapped.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
EMS	A		A		A	A	A	

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use	EMS01 352 Description	M AN 1/80
	<p>A free-form description to clarify the related data elements and their content</p> <ol style="list-style-type: none"> 1. When HL03 is code PC and NM101 is code 9P or 9S, cite the nature of the disability if the Principal Investigator or Co-Investigator is disabled and cite code DS in EMS04. 2. When NM101 is code 17, 9K, or EY, identify the project role for the individual. 	

Segment: **N9 Reference Identification**
Position: 400
Loop: N9
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

- Notes:**
1. Use to identify references associated with the entity cited in NM101.
 2. When HL03 is code OS (Other Support loop) and NM101 is code 92, use of this segment is **REQUIRED** to identify the award number (code CT) or application number (code BD).

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
N9					A	A		

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	N901	128	Reference Identification Qualifier	M ID 2/3
			Code Qualifying the Reference Identification	
		19	Division Identifier	
			<i>When NM101 is code 9K, 9P, or 9S, use to indicate the major subdivision name of the individual's organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.</i>	
		5C	Congressional District	
			<i>When NM101 is code 61, use to indicate the Congressional district in which the project is performed as specified in the Federal Agency</i>	

- grant application instructions. Use multiple iterations of this segment with code 5C if the work is performed in more than one Congressional district.*
- 9F Referral Number
When NM101 is code 17, use to indicate the number of days for consultation.
- AH Agreement Number
When HL03 is code PC (Project loop) and NM101 is code K8, use to indicate whether the indirect rate is current or pending. If the rate is current, cite CURRENT in N903 and the date in N904. If the rate is pending, cite PENDING in N903.
- BD Bid Number
1. When HL03 is code OS (Other Support loop), NM101 is code 92, and the Other Support is pending or planned, cite the supporting organization's application number in N902, when known. Use the 2/MTX/410 segment to identify the project title.

2. When the pending or planned support is for the same as this application, cite the word SAME in N903 and do not use codes KA or YV.
- CT Contract Number
When HL03 is code OS (Other Support loop), NM101 is code 92, and the Other Support is active, cite the supporting organization's award number in N902. Use the 2/MTX/410 segment to identify the project title.
- DP Department Number
When NM101 is code 9K, 9P, or 9S, use to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the individual's organization. For example, Department of Industrial Engineering or Sales Department. Cite the name in N903.
- GE Geographic Number
When NM101 is code 61, use to indicate a geographic location not otherwise identified.

- Cite the name of the location in N903 and, if required, provide the coordinates in N907. If needed, use N907-1 and N907-3 to pass longitude and latitude coordinates.*
- K5** **Task Order**
When HL03 is code OS (Other Support loop), use to indicate the goals of the other project. Cite the word GOALS in N903 and use the following 2/MTX/410 segment to provide the description.
- L4** **Proposal Paragraph Number**
1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) and NM101 is code 9P, 9K, or 9S, use to indicate the Grant Application paragraph number that describes the text that will appear in the 2/MTX/410 segment associated with the individual identified in the NM1 segment. This includes the individual's published articles when specific Federal Agency instructions direct that they be provided in free-text form.
- P5** **Position Code**
When NM101 is code 17, 9K or EY, use is REQUIRED to indicate the job title of the individual. Cite the title in N903.
- P6** **Pipeline Number**
When NM101 is code 61, use to indicate a pipeline designation. Provide the coordinates in N907. If needed, use N907-1 and N907-3 to pass longitude and latitude coordinates.
- RC** **Rail Routing Code**
When NM101 is code 61, use to indicate a railway designation. When this code is used, the N4 segment is REQUIRED. Cite the owner of the railway in N903.
- RU** **Route Number**
When NM101 is code 61, use to indicate a roadway designation, e.g., I-95, US Highway 1, State Route, 274. When this code is used, the N4 segment is REQUIRED. If needed, use N907-1 and N907-3 to pass mileage markers.

SY Social Security Number

1. When HL03 is code PC (Project loop) and NM101 is code 9P or 9S, use to indicate the social security number of the Principal Investigator and any Co-Investigators.

2. When HL03 is code IB (Previous Award loop) and NM101 is code 9K, 9P, 9S, or EY, use to indicate the social security number of the identified individual. Also use N903 to identify the level of effort and N904 to identify the date of birth.

YV Participating Area

Use only when HL03 is code OS (Other Support loop) to indicate the overlap between the other project and the project being proposed. Cite the word OVERLAP in N903 and use the following 2/MTX/410 segment to provide an explanation of the overlap.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
19	A		A		A	A	A	
5C	A		N/U		A	N/U	A	
9F	A		N/U		A	A	A	
AH	A		N/U		A	A	A	
BD	A		N/U		A	A	A	
CT	A		N/U		A	A	A	
DP	A		A		A	A	A	
GE	N/U		N/U		N/U	N/U	N/U	
K5	A		N/U		A	N/U	A	
L4	A		N/U		A	A	A	
P5	A		A		A	A	A	
P6	N/U		N/U		N/U	N/U	N/U	
RC	N/U		N/U		N/U	N/U	N/U	
RU	N/U		N/U		N/U	N/U	N/U	
SY	A		A		A ¹⁴⁴	N/U	A	
YV	A		N/U		A ¹⁴⁵	A	A	

Must Use N902 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. *When N901 is code BD and there is no unique identification number associated with the application, cite NONE.*
2. *When N901 is code DP and NM101 is code 9K, 9P, or 9S, cite the school name, if applicable (for example, School of Engineering).*
3. *When N901 is code L4, cite the applicable Grant Application paragraph number from the following list:*

Para # Subject Area

- D Biographical*
- D.1 Experience*
- D.2 Employment History*
- D.3 Honors*
- D.4 Memberships/Associations*
- D.5 Publications*

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
127	A		A ¹⁴⁶		A ¹⁴⁷	A	A	

N903 369 Free-form Description X AN 1/45

Free-form descriptive text

1. *When N901 is code SY, use to identify the level of effort in support of the previous award. Cite in terms of a percentage, e.g., 50% (1/2 time) as 50; 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).*
2. *When N901 is code GE, use is REQUIRED to identify the geographic location.*
3. *When N901 is code RC, use is REQUIRED to identify the owner of the railway.*

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
369	A		A ¹⁴⁸		A	A	A	

N904 373 Date O DT 6/6

Date (YYMMDD)

1. When HL03 is code IB (Previous Award loop) and N901 is code SY, use to indicate the individual's date of birth.

2. When HL03 is code PC (Project loop), N901 is code AH and N903 cites CURRENT, use to indicate the date of the indirect rate agreement.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
373	A		N/U		A ¹⁴⁹	A	A	

N907 C040 Reference Identifier O

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Must Use C04001 128 Reference Identification Qualifier M ID 2/3

Code Qualifying the Reference Identification

76 Milestone

When N901 is code RU, use to indicate the roadway milepost associated with the location cited in N4.

LK Longitude expressed in Degrees, Minutes and Seconds

When N901 is code GE or P6, use to indicate the longitude for the location.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04001	N/U		N/U	A	N/U	N/U	N/U	

Must Use C04002 127 Reference Identification M AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04002	N/U		N/U	A	N/U	N/U	N/U	

C04003 128 Reference Identification Qualifier X ID 2/3

Code Qualifying the Reference Identification

76 Milestone

When N901 is code RU, use to indicate a second roadway milepost associated with the location cited in N4, if needed.

LQ Latitude Expressed in Degrees, Minutes and Seconds

When N901 is code GE or P6, use to indicate the latitude for the location.

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04003	N/U		N/U	A	N/U	N/U	N/U	

C04004 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04004	N/U		N/U	A	N/U	N/U	N/U	

C04005 128 Reference Identification Qualifier X ID 2/3

Code Qualifying the Reference Identification

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04005	N/U		N/U	A	N/U	N/U	N/U	

C04006 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
C04006	N/U		N/U	A	N/U	N/U	N/U	

Segment: **MTX** Text

Position: 410

Loop: N9

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify textual data

- Syntax Notes:**
- 1 If MTX01 is present, then MTX02 is required.
 - 2 If MTX03 is present, then MTX02 is required.

Semantic Notes:

Comments:

- Notes:**
1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) and N901 is code L4, use to identify biographical data including experience, honors, and memberships/associations of the individual identified in the 2/NM1/340 segment.
 2. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) and N901 is code CT or BD, use to provide the title of the Other Support Project.
 3. When HL03 is code OS (Other Support loop) and N903 cites the word GOALS, use to indicate the goals of the other project.
 4. When HL03 is code OS (Other Support loop) and N903 cites the word OVERLAP, use to explain the overlap between the other project and the project being proposed.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
MTX	A		N/U	A	A	A	A	

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	MTX02	1551	Message Text	X AN 1/4096
			To transmit large volumes of message text	

DATA ELEMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1551	A ¹⁵⁰		N/U	A	A	A	A ¹⁵¹	

MTX03 1551 Message Text

O AN 1/4096

To transmit large volumes of message text

Segment:	DEG Degree Record
Position:	420
Loop:	DEG
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To provide the receiving institution or agency notice of academic awards made to the student whose record is being transmitted
Syntax Notes:	1 If either DEG02 or DEG03 is present, then the other is required.
Semantic Notes:	1 DEG02 and DEG03 refer to the date the degree was awarded. 2 DEG05 indicates the type of honors the student received with the degree.
Comments:	
Notes:	1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop), and NM101 is code 9K, 9P, or 9S, use of this DEG loop is REQUIRED to identify the academic degree history of all Key Personnel. 2. Use multiple iterations as needed to identify all pertinent degrees.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DEG01	1126 Academic Degree Code	M ID 3/3
		Code indicating the level of postsecondary academic award earned by a student	
		<i>Use one of the following degree codes:</i>	
		2.1 <i>Postsecondary Certificate or diploma (less than one year)</i>	
		2.2 <i>Postsecondary Certificate or diploma (one year or more but less than four years)</i>	
		2.3 <i>Associate Degree (e.g., Associate in Science)</i>	
		2.4 <i>Baccalaureate Degree</i>	
		2.5 <i>Baccalaureate (Honors) Degree</i>	
		3.1 <i>First Professional Degree</i>	
		3.2 <i>Post-Professional Degree</i>	
		4.1 <i>Graduate Certificate</i>	
		4.2 <i>Master's Degree</i>	

- Segment:** **FOS** Field of Study
- Position:** 430
- Loop:** DEG
- Level:** Detail
- Usage:** Optional
- Max Use:** >1
- Purpose:** To provide the receiving institution or agency with information about the field of study associated with the academic awards made to the student whose record is being transmitted
- Syntax Notes:**
- 1 If either FOS02 or FOS03 is present, then the other is required.
 - 2 At least one of FOS02 or FOS04 is required.
- Semantic Notes:**
- 1 FOS02 and FOS03 are the student's program of study.
- Comments:**
- Notes:** *Use of this FOS segment is REQUIRED in each 2/DEG/420 loop iteration to identify the field of study for which the degree was conferred.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
FOS	A		N/U		A	A	A	

Data Element Summary

Ref.	Data							
<u>Des.</u>	<u>Element</u>	<u>Name</u>				<u>Attributes</u>		
Must Use	FOS01	1153	Academic Field of Study Level or Type Code	M	ID	1/1		
			Code indicating the field of study being described for a student in an academic institution by indicating how it was used in the academic program					
			M	Major				
	FOS02	66	Identification Code Qualifier	X	ID	1/2		
			Code designating the system/method of code structure used for Identification Code (67)					
			71	Integrated Postsecondary Education Data System (IPEDS) set of codes maintained by the US Department of Education's National Center of Education Statistics, Washington, D.C.				
			CA	Statistics Canada Canadian College Student Information System Course Codes				

CC

Statistics Canada University Student Information System Curriculum Codes

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
71	A		N/U		A	A	A	
CA	A		N/U		N/U	N/U	A	
CC	A		N/U		N/U	N/U	A	

FOS03 67 Identification Code X AN 2/20
Code identifying a party or other code

FOS04 352 Description X AN 1/80
A free-form description to clarify the related data elements and their content
Use to identify the broad area of study (e.g., Chemistry or Physics), if not specifically identified in FOS03.

FOS05 352 Description O AN 1/80
A free-form description to clarify the related data elements and their content
Use to identify an area of specialization within the broad area.

Segment: **N1** Name
Position: 440
Loop: DEG
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Notes: *Use of this N1 segment is REQUIRED in each 2/DEG/420 loop iteration to identify the institution of higher education which conferred the degree.*

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
N1	A		N/U		A	A	A	

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98 Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		1R University, College or School	
	N102	93 Name	X AN 1/35
		Free-form name	
		<i>Use only if no coded means of identifying the educational institution is available.</i>	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	

While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use to indicate a DoD or Civilian Agency Activity Address.
- 33 Commercial and Government Entity (CAGE)
Use to indicate the specified organization's CAGE code.

CODE	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
1	A		N/U		A	M	A	
9	A		N/U		A	A	A	
10	N/U		N/U		N/U	A	N/U	
33	N/U		N/U		N/U	M	N/U	

N104

67 Identification Code

X AN 2/20

Code identifying a party or other code

Segment: **SE** Transaction Set Trailer
Position: 480
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

SEGMENT	DOE	HHS	NIH	DOT	NSF	ARO	ONR	AFOSR
SE ¹⁵⁴	M	M	M	M	M	M	M	M

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number as appears in ST02.</i>	

IC Endnotes

- ¹ All agencies must use this segment as indicated in the conventions notes. Both data elements are required.
- ² All agencies must use this segment as indicated in the convention notes.
- ³ NSF - Use to indicate a withdrawal. Cite date in 1/DTM/030 DTM01/02 code 36.
- ⁴ NSF - Also use to indicate a proposal.
- ⁵ NIH - Use to indicate date associated with the signature of the Signing Official. (Page AA, #15 and 16).
- ⁶ NSF - Use to indicate the date associated with the signature of the Signing Official (AOR) and the PI. Cover sheet page 2.
- ⁷ NIH - Use to indicate the RFA number to which this application is a response. Maximum length for the number is 10 characters. (Page AA, # 2.)
- ⁸ NSF - Indicate the Program Announcement/Solicitation # and closing date. (Cover sheet Page 1.) Identify the title and date in the 1/N9/060 loop.
- ⁹ At least one of the following codes must be used.
- ¹⁰ NSF - Must use with BGN01 code 01 - Cancellation to indicate the date of the withdrawal of the proposal.
- ¹¹ NIH - Use to indicate the Title of Project (Page AA, #1).
- ¹² NIH - Indicate a number assigned for a previous grant or application.
- ¹³ NIH - Use with code CT and BGN07 code 6C to indicate the previous grant number assigned.

Use with code CT and BGN07 code 6R to indicate the previous application number (398, page ii)
- ¹⁴ NIH - Cite the word "TITLE" when used with qualifier 4W.

NIH - Cite the work "SOURCE" when used with qualifier KS.
- ¹⁵ NSF - Cite the word "TITLE" when used with qualifier 4W.

NSF - Cite the word "SOURCE" when used with qualifier KS.
- ¹⁶ DOE - The proposal and solicitation title are restricted to 150 characters.
- ¹⁷ NIH - Use to transmit the Title of Project, page AA, number 1. Maximum length is 81 characters.

NIH - Use to transmit the RFA title, page AA, number 2 (Title). Maximum length is 50 characters.
- ¹⁸ NSF - Use to transmit the Title of Proposed Project. Maximum length is 180 characters.

NSF - Use to transmit the Program Announcement/Solicitation Number Title.

19 ONR - The proposal and solicitation title are limited to 150 characters.

20 NIH - Use to indicate the official signing for the applicant organization (page AA, number 14).

21 NSF - Use to indicate the Authorized Organizational Representative (Cover Sheet Page 2).

22 NIH - Use to indicate AO to be notified if award is made (page AA, number 13).

23 NIH -

24 NSF - Use to indicate the Name of the Performing Organization where the award will be performed (Cover Sheet Page 1).

25 NIH - Use to indicate Applicant Organization (page AA, number 9).

26 NSF - Use to indicate the Name of the Organization to which an award should be made (Cover Sheet Page 1).

27 DOE - Maximum length for last name is 20 characters.

28 NIH - Maximum length for last name is 30 characters.

Use N@ segment if the Organization Name exceeds 35 characters. Note that future versions of this guide will limit the values for Applicant Organization Name.

29 NSF - Use to indicate the last name of Authorized Organizational Representative for code 1B.

Use N2 segment if Organization Name exceeds 35 characters.

30 ONR - Maximum length for last name is 20 characters.

31 DOE - Maximum length is 20 characters.

32 NSF - Indicate the first name for code 1B.

33 ONR - Maximum length is 20 characters.

34 DOE - Maximum length is 1 character.

35 NIH - Indicate middle initial only.

36 NSF - Indicate middle initial of individual identified by code 1B.

37 NSF - Indicate the prefix of individual identified by code 1B.

38 NIH - Maximum length for name suffix is 5 characters.

- 39 NSF - Indicate the suffix of the individual identified by code 1B.
- 40 NIH - Not used in phase one.
- 41 NSF - Not captured by NSF.
- 42 NIH - Not used in phase one.
- 43 NSF - Not captured by NSF.
- 44 NIH - Use with NM103 to specify an organization name which is longer than 35 characters. NIH will append N201 to NM103. Maximum length of NM103 plus N201 is 40 characters.
- 45 NSF - Use with Nm103 to specify an organization name which is longer than 35 characters.
- 46 NIH - Use to indicate street address portion of mailing address.
- 47 NSF - Use to indicate street address portion of mailing address.
- 48 NIH - Maximum length for postal code is 9 characters.
- 49 NIH - Not used in Phase one.
- 50 NSF - When NM101 is code SE, use to indicate the county of the applicant.
- 51 NIH - Use to indicate the Organizational Component Code (Page AA, number 11). See PHS 398 Application Kit for relevant codes. Only enter the numeric code. Do not enter the descriptive text In N902.
- 52 NSF - (Cover Sheet page 1).
- 53 DOE - For Congressional districts 1 through 9, cite 01 through 09 to indicate the first through ninth districts. For example, cite 06 to indicate the 6th district.
- 54 NIH - Maximum length is 2 characters in N902. (Page AA, number 12).
- 55 NIH - Use to indicate an organization's IPF number (Page AA, number 9. Maximum length is 10 characters.
- 56 NSF - Use to indicate an awardee organization code and performing organization code (Cover Sheet Page 1.).
- 57 NIH - Indicate the EIN (Page AA, number 12). Maximum length is 12 characters.
- 58 NSF - When NM101 is code SE, use to indicate an awardee EIN number (Cover Sheet Page 2).
- 59 NSF - When NM101 is code SE use to indicate the Title of the Authorized Organizational Representative (Cover Sheet Page 2).
- 60 NIH - Use with code P5 to indicate the title of the AO (Page AA, number 13) or of the signing official (Page AA, number 14). Maximum length of the title is 40 characters. Note that future versions will limit the values permitted for this element.

61 NSF - In conjunction with N101 code DP, used to indicate the department name.

NSF - Use with code P5 to indicate the title of the AO (Page AA, number 13) or of the signing official (Page AA, number 14). Maximum length of the title is 40 characters. Note that future versions will limit the values permitted for this element.

62 NIH - Use PER03-PER08 to indicate the e-mail address, telephone number, and FAX number for the AO and Signing Official. These correlate to page AA, 13 and 14.

63 NIH - Maximum length for fax is 25 characters.

64 NIH - Maximum length for telephone number is 25 characters.

65 NSF- Use to indicate the telephone number of the Authorized Organizational Representative (Cover Sheet Page 2).

66 NSF - Use to indicate the fax number of the Authorized Organizational Representative (Cover Sheet Page 2).

67 NSF - Use to indicate the email address of the Authorized Organizational Representative (Cover Sheet Page 2).

68 NIH - Human Subject, page AA, number 4.

69 NSF - Human Subject, page AA, number 4.

70 NIH - Vertebrate Animals, page AA, number 5.

71 NSF - Use to indicate that vertebrate animals are involved, GPG II D.12.e.

72 NIH - Use for Consortium/Contractual Costs, page DD and EE.

73 NSF - TBD

74 NSF - TBD

75 NSF - Use only in SBIR or STTR proposals.

76 NSF - Enter number of employees.

77 NIH - Use with code 193 to indicate Dates of Proposed Period of Support (page AA, number 6 - From. See PHS 398 Application Kit for selecting an appropriate beginning date.

Use with code 194 to indicate Dates of Proposed Period of Support (page AA, number 6 -Through. See PHS 398 Application Kit for specifying an appropriate ending date.

US applicant organizations can request no more than 5 years of support.

78 Use with code 193 to indicate planned start date on Cover Sheet, page 1.

Use with code 432 to indicate the submission date for active or pending Other Support on Current and Pending Support form.

79 NIH - Data is not captured in Phase 1.

80 NIH - Correlate to Type of Organization (page AA, number 10). A maximum of one organization type is permitted.

81 NSF - Correlates to Cover Sheet Page 1.

82 NSF - Corresponds to Minority Business Check Box on Cover Sheet.

83 NSF - Correlates to check boxes on Cover Sheet, Page 1.

84 NIH - Correlates to page AA, number 4.

85 NSF - Applies to Common Rule (45 CFR 690)

86 NIH - Use with code F4 to indicate Assurance of Compliance Number (page AA, number 4b). Maximum length is 9 characters.

Use with code Y9 to indicate the Animal Welfare Assurance Number (page AA, number 5b). Maximum length is 9 characters.

Use with code WI to indicate Human Subjects Exemption Number (page AA, number 4a). See the PHS 398 Application Kit for the exemption categories and corresponding exemption numbers. Maximum length is 4 characters.

Use with code L4 to indicate the Abstract (page BB). Cite the letter A.

Use with code L4 to indicate the Budget Justification (page EE). Cite the letters C.1

Use with code L4 to indicate the Research Plan Specific Aims. Cite the letters B.2

87 NSF - Use with code F4 to identify the applicable subsection exempting the proposal from IRB review.

Use with code L4 to indicate Beginning Investigator (Cover Sheet Page 1). Cite the letters J.1

Use with code L4 to indicate Small Grant for Exploratory Research (Cover Sheet Page 1). Cite the letters J.2

Use with code L4 to indicate Facilitation for Scientists/Engineers with Disabilities (Cover Sheet Page 1). Cite the letters J.4

Use with code L4 to indicate Research Opportunity Award (Cover Sheet Page 1). Cite the letters J.5

Use with code L4. To indicate the Project Summary. Cite the code A.

Use with code L4 to indicate the References Cited. Cite the letters B.6

Use with code L4 to indicate the Results From Prior Support. Cite the letters B.7

Use with code L4 to indicate Facilities, Equipment and Other Resources. Cite the letters C.2 for Laboratory; C.2 for Clinical; H for Animal; C.3 for Computer; C.2 for Office; and C.4 for Other. Cite the letters C.3 for Major Equipment and cite C.4 for Other Sources.

88 NIH - Use with code F4 to cite the type of review: FULL or EXPEDITED (page AA, number 4a). If the IRB review is delayed beyond submission of the application, cite the word PENDING.

Use with code Y9 to indicate that the IACUC review is delayed beyond submission of the application. (page AA, number 5a). Cite the word PENDING.

NOT used with codes L4 and WI.

⁸⁹ NSF - When N901 is code L4, use to identify the Grant Application paragraph title.

When N901 is code F4, use to identify the type of IRB review. Cite either the word FULL or EXPEDITED.

⁹⁰ NIH - Use with code F4 to indicate the IRB approval date (page AA, number 4a).

Use with code Y9 to indicate the IACUC approval date (page AA, number 5a).

⁹¹ This segment is for future use. No Federal agencies use this segment.

⁹² NIH - Use to transmit the abstract, page BB. The abstract, must be constrained to ASCII characters. Maximum length is 4M.

Use to transmit the Budget Justification (page EE0). Reference the PHS 398 Application Kit for further instructions on information to be placed in the Budget Justification. Maximum is 4M.

Use to transmit the Research Plsn Specific Aims. Maximum length is 4M.

⁹³ NIH - Cite "1" to indicate first budget year. This correlate to page AA, numbers 7a and 7b and page DD.

Cite "2", "3", "4", and "5" to indicate Additional Years of Support. This correlates to page EE, ADDITIONAL YEARS OD SUPPORT REQUESTED, columns "2 nd", "3 rd", "4 th", and "5 th" respectively.

Cite "T" to indicate the total budget. This correlates to page AA, numbers 8a and 8b.

⁹⁴ NSF - Cite 1, 2, 3, etc. to indicate budget years.

Cite "T" to indicate the total budget.

⁹⁵ NIH - Not captured by NIH. For purposes of clarity and syntax, use code CC with the PPL04 value of T to indicate the budget period for the entire project. Use codes AP, SP and CY to identify an appointment type for an individual.

⁹⁶ NIH - Use to indicate the budget period start date (page DD, "FROM"). Do not use the academic period. Use he same date for each iteration of the PD loop.

⁹⁷ NSF - Use to indicate the budget period start date.

⁹⁸ NIH - Use to indicate fringe benefits.

⁹⁹ NSF - Use to indicate fringe benefits percentage.

¹⁰⁰ NIH - Use with PD03:01 code DO when dealing with personnel labor costs.

¹⁰¹ NSF - Use with PD03:01 code DO when dealing with personnel labor costs for the period specified in PD01.

¹⁰² NIH - Use with PD03:04 code 8S to indicate institutional base salary (page DD, "INST. BASE SALARY).

Use with PD03:01 to indicate the percentage for fringe benefits.

Cite "1" when PD03-1 is code DO and PD03:04 is not used to meet X12 syntax rules.

All monetary amounts are constrained to ten decimal places, including the decimal point and cents (the decimal point and cents are optional).

- 103 NSF - Use with PD03:04 code 8S to indicate labor funds requested for period specified in PD01.
Use with PD03:01 code P1 to indicate the percentage for fringe benefits or indirect costs.
- 104 NIH - Not captured by NIH. Use to identify the budget category.
- 105 NSF - Use to identify a budget category by a short hand means.
- 106 NSF - Use to indicate Total Other Direct Costs. This is the sum of Budget Items G.1-6.
- 107 NSF - Budget Line Item G.5. Aggregate into Total Other Direct Costs (code 07).
- 108 NSF - Budget Line Item I. Aggregate into Total Costs (code 38).
- 109 NSF - Budget Line Item L.
- 110 NSF - Budget Line Item J. Aggregate into Total (code 28).
- 111 NSF - Budget Line Item G.6. Aggregate into Total Other Direct Costs (code 03).
- 112 NSF - Budget Line Item D. Aggregate into Total Purchased Equipment (code 72).
- 113 NSF - Use to indicate total material and supplies. Budget Line Item G.1. Aggregate into Total Other Direct Costs (code 03).
- 114 NSF - Budget Line Item C. Aggregate into Total Labor Costs (code 71).
- 115 NSF - Total of Budget Line Items A and B. Aggregate into Total Labor Costs (code 71).
- 116 NSF - Total of Budget Line Items A+B+C. Aggregate into Total Direct Costs (code 84).
- 117 NSF - Total for Line Item D. Aggregate into Total Direct Costs (code 84).
- 118 NSF - Budget Line Item E.1.
- 119 NSF - Budget Line Item E.2.
- 120 NSF - Budget Line Item F.1. Aggregate into Participant Total Costs (code 79).
- 121 NSF - Budget Line Item F.2. Aggregate into Participant Total Costs (code 79).
- 122 NSF - Budget Line Item F.4. Aggregate into Participant Total Costs (code 79).
- 123 NSF - Budget Line Item F. Aggregate into Total Direct Costs (code 84).
- 124 NSF - Budget Line Item G.2. Aggregate into Total Other Direct Costs (code 03).

125 NSF - Budget Line Item G.3. Aggregate into Total Other Direct Costs (code 03).

126 NSF - Budget Line Item G.4. Aggregate into Total Other Direct Costs (code 03).

127 NSF - Budget Line Item M.

128 NSF - Budget Line Item H. (Total of line items A-G). Aggregate into Total Costs (code 38).

129 NSF - Budget Line Item M.

130 NSF - Budget Line Item F.3. Aggregate into Participant Total Costs (code 79).

131 NIH - The following method for specifying a labor category comprising multiple persons is mandated: cite the numeric "1" in PD08; use PD09 to identify the labor category, and repeat the process for the total of persons in the labor category. Of, for example, a labor category comprises six nurses: cite "1" in PD08, cite "NURSE" in PD09, and repeat for a total of six iterations.

If PD09 identifies a project role (e.g. Principal Investigator - a name of a person must be associated with a project role), use to indicate the Name of a Key Person (page DD, "NAME"). Maximum length for middle initial is 1 character.

If PD09 identifies a labor category (e.g. Technician -if a name of a person cannot be associated with a labor category), use the number 1 to indicate one FTE.

132 NSF - When PD07 is code 01 or 49 and PD09 is a project role (e.g., Principal Investigator - a name of a person must be associated with a project role; use is REQUIRED to identify the name of an individual (Key Person).

When PD07 is code 01 or 49 and PD09 is a labor category (e.g., Technician - if a name cannot be associated with labor category), use is REQUIRED to identify the number of persons budgeted within that category. In addition to project employee categories, this includes categories for trainees, participants, and consultants.

For other PD07 categories, use as needed to identify a named individual to whom the cost pertains.

133 NIH - Use to identify a project role or a labor category. This corresponds to page DD, "ROLE ON PROJECT". For the role of principal investigator, use the letters "PI". Maximum length constraint for a project role is 30 characters. Note that future versions will limit the values permitted for this element.

134 NSF - When PD07 is code 01 or 49, use is REQUIRED to identify the project role of the individual named in PD08 or a labor category. For labor categories, include words that describe the type of personnel (e.g., post-doctoral associates, other professionals (technicians, programmers, etc.), graduate students, undergraduate students, secretarial, etc.).

When PD07 is code 73 or 74, use to identify the destination for the travel.

When PD07 is code 42, use is REQUIRED to identify the nomenclature of the equipment being purchased.

When PD07 is code 18 or 83, use as needed to identify the sources of the contribution.

For other PD07 categories, use as needed to provide additional information necessary to describe the category.

135 NIH - Use to indicate the number of months in the period specified by PD01. For a person, use to indicate the type of appointment (page DD, "TYPE APPT").

136 NIH - Use IC notes 2 and 5.

When PD03:01 is code P1, use to indicate the salary requested (page DD, "SALARY REQUESTED").

137 NSF - Use IC notes 2, 4, 5, and 6.

When PD03:01 is code P1, use to indicate the salary requested.

138 Use to indicate the name of the county or parish.

139 NIH - Not captured in Phase 1.

140 NSF - All entries must be provided. The lack of entry indicates a “decline to provide”.

141 NIH - Use to indicate the Role on Project for KEY PERSONNEL (page BB). Maximum length is 30 characters. Future versions will limit the values permitted.

142 NSF - If the PI or Co-PI elects NOT to make an entry on disability, indicate either “Not Disabled” or “Decline to Provide”.

143 NIH - Not captured in Phase 1.

144 NSF - Code SY, if the individual does not wish to provide this information, indicate “Decline to Provide” in N903.

145 NSF - Code YV, if the individual does not wish to provide this information, indicate “Decline to Provide” in N903.

146 NIH - Use with code 19 to indicate Major Subdivision, e.g. School of Medicine (page AA number 3g). Note that future versions of this guide will limit the values permitted for this element.

Use with code DP to indicate Department, e.g., Material Research Laboratory (page AA, number 3f). Note that future versions will limit the values permitted for this element.

Use with code SY to indicate the PI’s SSN (page AA, number 3c). Maximum length is 9 characters.

147 NSF - Use with code 19 when NM101 codes are 9K, 9P, or 9S, to indicate Major Subdivision, e.g., School of Engineering

Use with code 5C when NM101 is code 61, to indicate the Congressional district for the performance location.

Use with code 9F when NM101 is code 17, to indicate the number of days of consultation.

Use with code AH when HL03 is PC and NM101 is code K8, to indicate whether the indirect rate is current or pending. If the rate is current, cite CURRENT in N903 and the date in N904. If the rate is pending, cite PENDING in N903.

Use with code BD when NM101 is code 92, and the Other Support is pending or planned, to cite the organization’s application number in N902. Use 2/MTX/410 to identify the project title. When the pending or planned support is for the applications being submitted, cite the word SAME in N903 and do not use codes K5 or YV.

Use with code CT when HL03 is code OS when NM101 is code 92 and the Other Support is active, to cite the supporting organization’s award number. Use the 2/MTX/410 to identify the project title.

Use with code DP when NM101 is code 9K, 9P, or 9S, to indicate Department, e.g., Computer Science Department, of the individual’s organization. Cite the name in N903.

Use with code K5 to indicate the goals of the other project when HI03 is code OS. Cite the word GOALS in N903 and use 2/MTX/410 to provide the description.

Use with code L4 when HL03 is PC, SP, or CO and NM101 is code 9P, 9K, or 9S, to indicate the Paragraph number of the individual’s biographical sketch. Use the 2/MTX/410 to provide the text.

Use with code P5 when NM101 is code 17, 9K or EY to indicate the job title of the individual. Cite the title in N902.

Use with code SY when NM101 is code 9P or 9S to indicate the SSN of the PI and Co-PI. When HL03 is code IB and NM101 is code 9K, 9P, or 9S or EY, use to indicate the social security number of the identified individual. Also use N903 to identify the level of effort and N904 to identify the date of birth.

Use with code YV when HL03 is code OS, to indicate the overlap between the other project and the project being proposed. Cite the work OVERLAP in N903 and use 2/MTX/410 to provide an explanation of the overlap.

148 NIH - Use with code P5 to indicate the position title of the PI (page AA, number 3d). Maximum length is 40 characters. Cite the value "1" in N902 to preserve X12 syntax. Future versions will limit the values permitted.

149 NSF - If the individual does not wish to provide a birth date, indicate

150 DOE - Other Support title is limited to 150 characters.

151 ONR - Other Support title is limited to 150 characters.

152 NIH - This data is not currently collected by NIH. Enter an appropriate code to satisfy X12 syntax.

153 NIH - Use to indicate degree of the PI. Correlate to page AA, number 3b. Maximum length is 4 characters.

154 All agencies must use this segment as indicated in the convention notes. Both data elements are required

End of Endnotes

THE HL—HIERARCHICAL LEVEL SEGMENT

The HL—Hierarchical Level segment is used to identify levels of detail information using a hierarchical structure. Table 2 of the 194 transaction set begins with an HL—Hierarchical Level segment which is used to identify project organization, personnel, technical data, and budget data associated with the application. This appendix is dedicated to providing guidance and examples on how the HL segment is used within the 194 Grant or Assistance Application IC.

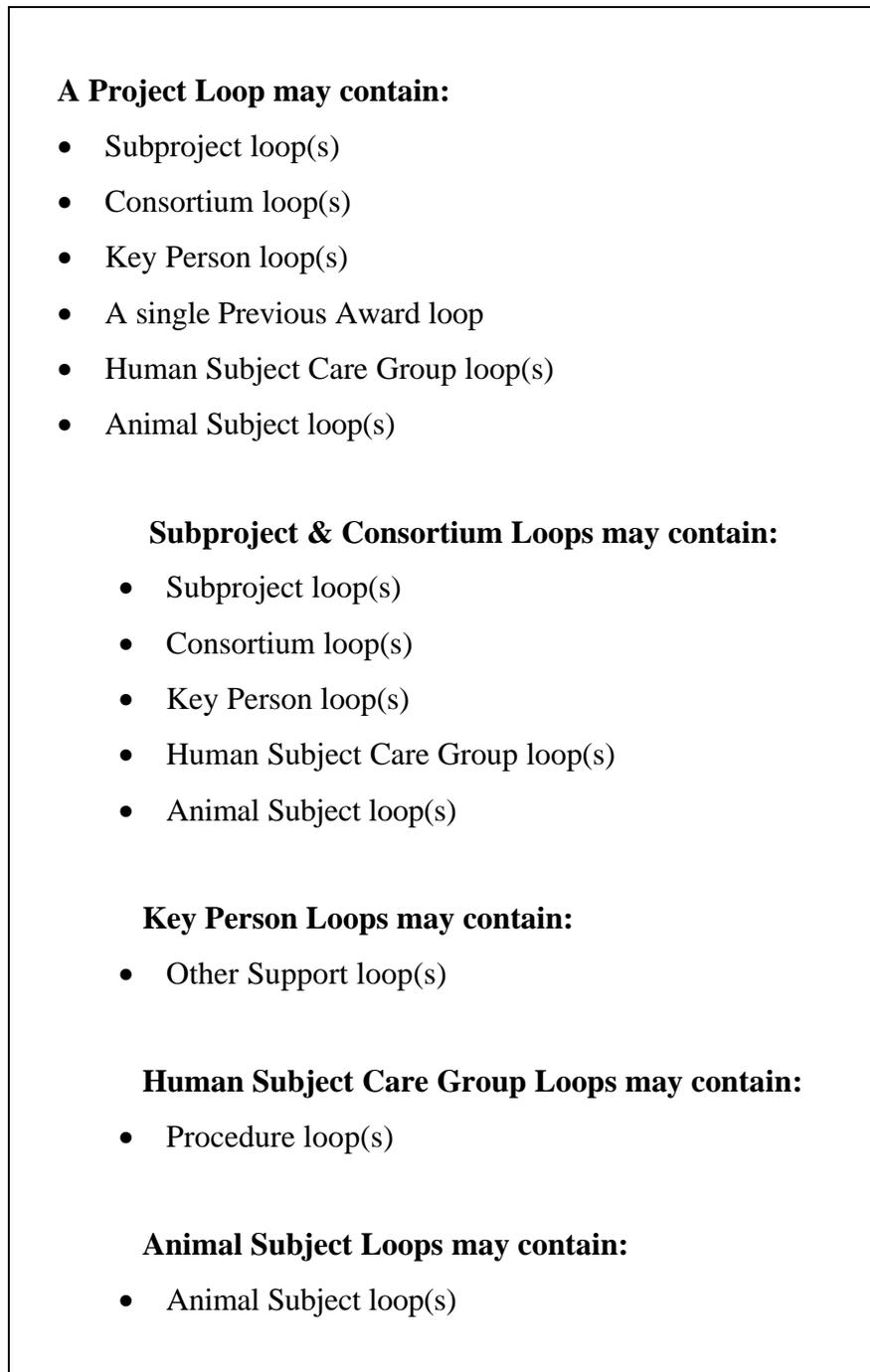
HL Loop Hierarchy

The 194 Grant or Assistance Application IC has a transaction set hierarchy defined by the HL loop as follows:

- ◆ The Project loop shall be the first iteration of the HL loop.
- ◆ The Project loop may have a single subordinate Previous Award loop.
- ◆ The Project loop may have any number of subordinate Sub-project, Consortium, Key Person, human subject Care Group, or Animal Subject loops.
- ◆ Sub-project and Consortium loops may have any number of subordinate Sub-project, Consortium, Key Person, human subject Care Group, or Animal Subject loops.
- ◆ Key Person loops may have any number of subordinate Other Support loops.
- ◆ Care Group loops may have any number of subordinate medical Procedure loops.
- ◆ Animal Subject loops may have any number of subordinate Animal Subject loops, but only if the subordinate loop contains a subset of animals of the same species.

Figure 2-1, The 194 Grant or Assistance Application HL Loop Hierarchy, provides a summary of the transaction set hierarchy as explained above.

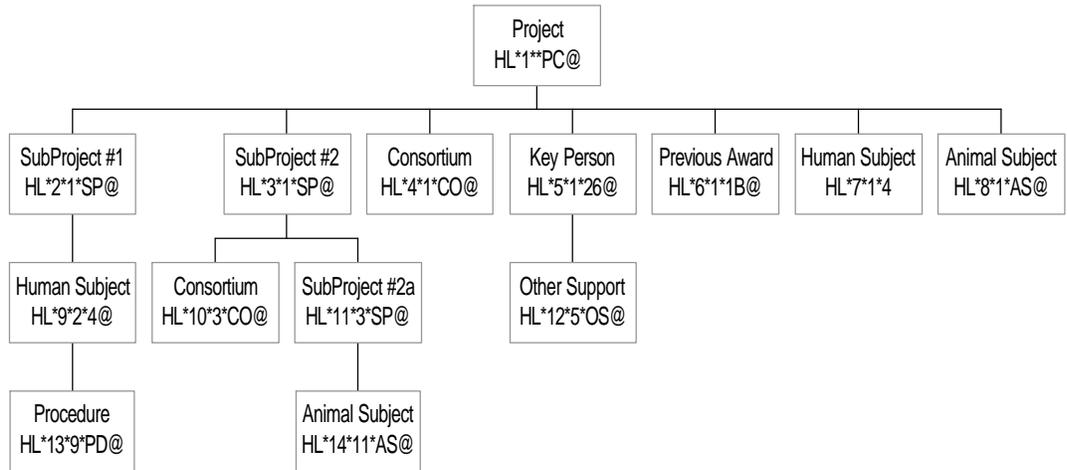
Figure 2-1. The 194 Grant or Assistance Application HL Loop Hierarchy



Project Hierarchy

Figure 2-2, Illustration of a Project Hierarchy, is another example of the HL segment hierarchy. In addition to naming the loop (e.g., Project), a sample HL EDI transmission string is given (e.g., HL*1**PO@).

Figure 2-2. Illustration of a Project Hierarchy



HL Loop Segment Usage

Table 2-1, HL Loop Segment Usage, specifies which segments are used within each HL loop type according to the HL03 code (e.g., code PC indicates a Project loop). A check mark indicates which segments are used in the applicable loop.

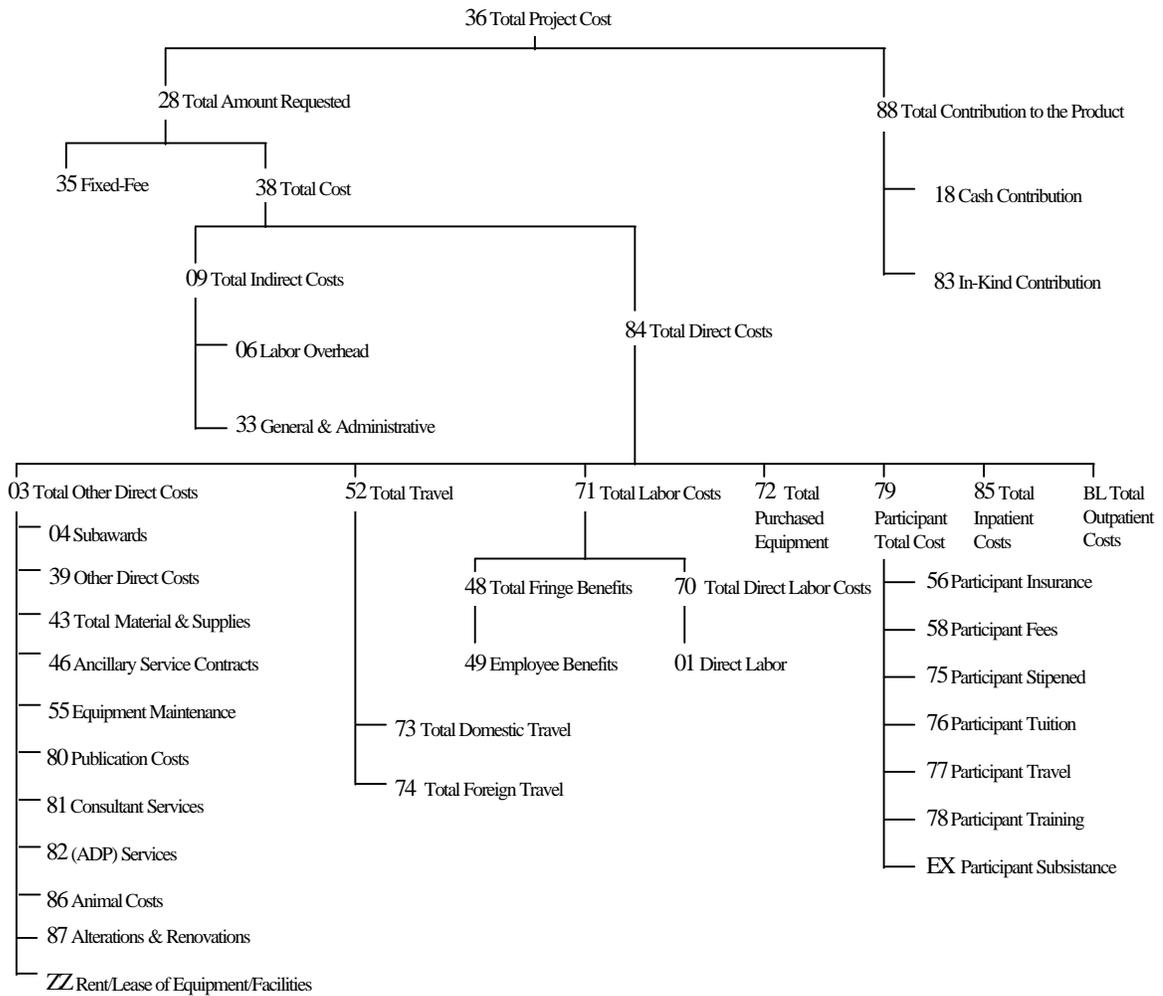
Table 2-1. HL Loop Segment Usage

Segment	HL03 - Hierarchical Level Code								
	PC	SP	CO	26	1B	4	AS	PD	OS
QTY									
AMT									
DTM									
PAM									
HSD									
NX1									
YNQ									
N9/L11/MTX									
INX/K3									
PPL/PD/PDD									
LX/NM1-N4									
PER									
DMG									
EMS									
N9/MTX									
DEG/FOS/N1									

Budget Category Code Hierarchy

Figure 2-3, Budget Category Code Hierarchy, shows the budget category codes applicable to the PD—Pricing Data segment loop. The codes are stated in data element 1196—Breakdown Structure Detail Code at position PD07 within the PD segment. The chart also indicates where costs are aggregated (e.g., code 06—Labor Overhead and code 33—General & Administrative costs are aggregated into code 09—Total Indirect Costs).

Figure 2-3. Budget Category Code Hierarchy



SAMPLE 194 EDI TRANSMISSION

The table that follows illustrates a sample EDI transmission based on the federally approved 194 Grant or Assistance Application IC.

- ◆ **Position**—identifies the transaction set table number/segment tag/transaction set table position (e.g., 1/ST/010 indicates the ST segment in Table 1 at position 010).
- ◆ **Loop**—indicates whether the segment is beginning a loop and at what loop level. Note: The entire row is shaded if the segment begins a loop. Only the first cell of the row is lightly shaded if the segment is beginning a nested loop.
- ◆ **ASC X12 EDI Transmission Format**—identifies the actual EDI transmission format for that particular segment occurrence. (Note: *s are being used to represent delimiters and @s are being used as segment terminators).
- ◆ **Definition**—provides a textual description of what information is being transmitted.

194 Grant or Assistance Application Implementation Convention

Position	Loop	ASC X12 EDI Transmission Format	Definition
TABLE 1			
1/ST/010		ST*194*0001@	This is a Grant or Assistance Application transaction set (code 194), using the control number 0001.
1/BGN/020		BGN*00*GA94133*970929*1422*LT *BAA01*S4@	This is the original submission (code 00). The submitting organization's unique identification number for this application is GA94133. The date of the transaction set transmission is September 29, 1997 and the time of transmission is 2:22 PM (1422 hours) local time (code LT). This proposal is in response to a broad agency announcement (BAA01). This is a new proposal submission.
1/DTM/030		DTM*036*980301***19@	The date this offer will be withdrawn by the applicant organization from the Federal Agency consideration for award (code 036).
1/PWK/050		PWK*AE*CF*CA*1*432189000@	Supplementary technical information (code AE) will be provided, by courier (code CF), in paper form or other media in addition to data being provided in this transaction set. The courier's DUNS number is 43218900.
1/N9/060	N9-1	N9*4W**TITLE@	Indicates that a proposal title (4W) will follow.
1/MTX/080		MTX*The Effects of Various Food Groups on Growth Rates@	The proposal title is as indicated in the MTX text.
1/N9/060		N9*KS**SOURCE@	Indicates that the title of the Broad Agency Announcement (code KS) will follow.
1/MTX/080		MTX*Studies on the Effects of Vitamins and Other Food Supplements Upon Health and Growth@	Title of the Broad Agency Announcement which this proposal is responding to.
1/N9/060		N9*WK*1005023@	The Type of Science Code (WK) is 1005023.
1/N9/060		N9*WK*1004066@	A second Type of Science Code (WK) is 1004066.
1/NM1/090	NM1-1	NM1*SE*2*****1*CH2333468@	The organization submitting the proposal (code SE) is identified by DUNS number (code 1) of CH2333468).
1/N9/130		N9*5C*NJ6@	The submitting organization is in Congressional District (code 5C) NJ6.
1/N9/130		N9*TJ*88-8888888@	The submitting organization's Taxpayer number (code TJ) is 88-8888888.

Position	Loop	ASC X12 EDI Transmission Format	Definition
1/NM1/090		NM1*BY*2*****10*W1QR2A@	The Federal agency to which the application is being submitted (code BY) is the Office of Federal Research, DOE, identified by its Civilian Agency Code (code 10) of W1QR2A.
1/NM1/090		NM1*1B*1*PHILLIPS*TONY@	The authorizing individual for this grant application (code 1B) is Tony Phillips.
1/N9/130		N9*19**Office of Federal Research@	The DOE office responsible for the program to which the applicant is applying is the Office of Federal Research.
1/PER/140		PER*IC**TE*5016268166@	Mr. Phillips is at commercial telephone (code TE) (501) 626-8166.
1/NM1/090		NM1*AD*1*Smith*John@	The business officer for the grant application (code AD) is John Smith.
1/PER/140		PER*IC**TE*5016268150@	Mr. Smith is at commercial telephone (code TE) (501) 626-8150.
TABLE 2			
2/HL/010	HL-1	HL*1**PC@	This is the first iteration of the HL loop. It is the Project (code PC) loop.
2/DTM/050		DTM*193*980615***19@	The planned project start date (code 193) is June 15, 1998.
2/DTM/050		DTM*194*000114***20@	The planned project end date (code 194) is January 14, 1997.
2/PAM/060		PAM*A3*24*MO@	The expected duration (code A3) of this project is 24 months (code MO).
2/NX1/080		NX1*2F*M8@	The organization submitting the proposal is classified as a state-government owned (code 2F) education institution of higher (code M8).
2/YNQ/090		YNQ*H7*Y@	Indicates the facility does not meet Federal smoke-free workplace standards (code H7).
2/N9/100	N9-2	N9*L4*A@	Indicates that a text paragraph (L4) will be provided in the following MTX segment. The code A is from the user-defined Grants Index. Code A identifies the Abstract.
2/MTX/110		MTX*This project will explore the effects... *initial physical size significantly... @	Provide the Abstract. (Note: Numerous MTX segments may be used to provide the abstract.
2/N9/100		N9*L4*B.3*Background@	Indicates that a text paragraph (L4) will be provided in the following MTX segment. Code B.3 is from the user-defined Grants Index. Code B.3 identifies the Background.
2/MTX/110		MTX*The changing work and dietary habits... @	One or more MTX segments can be used to provide background to the project. Additional N9/MTX pairs can be used to provide additional subject areas.

194 Grant or Assistance Application Implementation Convention

Position	Loop	ASC X12 EDI Transmission Format	Definition
2/PPL/170	PPL-2	PPL*T****AA@	Begins the detailed budget data for the total project (letter T = all years). The budget reflects actual unadjusted costs (code AA).
2/PD/190	PD-3	PD*CY*980101*DO:85*50000*LABOR-PI**01*1*Jones,Pat,W.@	The budget item is based on calendar year starting on January 1, 1998. The item unit of measure is dollars/yr (codes DO, YR) (annual salary). The value is \$50,000. The budget item is the labor cost of the principal investigator which is classified in the budget category of labor (code 01). There is 1 individual in the labor group and that individual's name is Pat W. Jones.
2/PDD/200		PDD*12*6*25000@	There are 12 months in the calendar year. The level of effort is 6 months for the period. The request is for \$25,000.
2/PD/190		PD*CY*980101*DO:HR*10*LABOR-LABASST**01*3@	The budget item is based on calendar year starting on January 1, 1998. The item unit of measure is dollars/hour (codes DO, HR) (hourly rate). The value is \$10. The budget item is the labor cost of a Laboratory Assistant which is placed in the budget category of labor (code 1). Three individuals will be used in this employment.
2/PDD/200		PDD*12*500*5000@	There are 12 months in the calendar year. The quantity of hours is 500. The request is for \$5,000.
2/PD/190		PD*CY*980101*DO*1*TRAVEL-DOMESTIC**73@	The budget item is based on calendar year (code CY) starting on January 1, 1998. The item unit of measure is dollars. The budget item is for travel which is in the budget category of Travel-Domestic (code 73).
2/PDD/200		PDD*12**1000@	There are 12 months in the calendar year. The request is for \$1,000.
2/PD/190		PD*CY*980101*DO*1*PROJECT TOTAL**36@	The budget item is based on calendar year (code CY) starting in January 1, 1998. The item unit of measure is dollars (code DO). The budget item is project-total which is in the budget category of Total (code 36).
2/PDD/200		PDD*12**450000@	There are 12 months in the calendar year. The request is for \$450,000.
2/PPL/170	PPL-2	PPL*1****AA@	Begins the detailed budget data for the first year's annual budget. The budget reflects actual unadjusted costs (code AA).
2/PD/190	PD-3	PD*CY*980101*DO:8S*60000*LABOR-PI**01*1*Jones, Pat, W@	The budget item is based on calendar year (code CY) starting January 1, 1998. The item rate is \$50,000 (annual salary) and the budget item is the labor cost of the principal investigator which is being placed in the budget category of labor (code 1).

Position	Loop	ASC X12 EDI Transmission Format	Definition
2/PDD/200		PDD*12*3*15000@	There are 12 months in the calendar year. The level of effort is 3 months for the period. The request is for \$15,000.
2/PD/190	PD-3	PD*CY*980101*DO:HR*10*LABOR-LABASST**01@	The budget item is based on calendar year (code CY) starting January 1, 1998. The item rate is \$10 (hourly salary) and the budget item is the labor cost of the Laboratory Assistant in the budget category of labor (code 1).
2/PDD/200		PDD*12*300*3000@	There are 12 months in the calendar year. The quantity of hours is 300. The request is for \$3,000.
2/LX/330	LX-2	LX*1@	First iteration of the LX loop.
2/NM1/340		NM1*9P*1*Jones*Pat*W*Dr**1*CH2333468@	The principal investigator (code 9P) is Dr. Pat W. Jones. The DUNs Number (code 1) of his organization is CH2333468.
2/DMG/380		DMG***M**O*1@	Dr. Jones is a male (code M) who is white (code O) and a U.S. citizen (code 1).
2/N9/400	N9-3	N9*L4*D.1@	The paragraph number (L4) identifies a user defined set of text groups. In this case it identifies the individual's experience (D.1).
2/MTX/410		MTX*Dr. Jones has spent more than 20 years...@	Summary of Dr. Jones' experience
2/N9/400	N9-3	N9*SY*191464437@	Mr. Jones has a social security number (code SY) of 191464437.
2/N9/400	N9-3	N9*DP**Department of Health and Human Sciences@	Mr. Jones is in the Department of Health and Human Services (code DP)@
2/DEG/420	DEG-3	DEG*4.4*CM*196206@	Dr. Jones has a doctoral degree (code 4.4) - awarded in June of 1962.
2/FOS/430		FOS*M*71*BIOCHEM@	The major for the degree was in Biochemistry.
2/N1/440		N1*1R**1*457931665@	The degree was conferred by a University, College, or school whose DUNs Number is 457931665@
2/LX/330	LX-2	LX*2@	Second iteration of the LX loop.
2/NM1/340		NM1*9S*1*McRae*Brian*W**Jr*1*CH2333468@	Mr. Brian W. McRae Jr. Is a Co-investigator (code 9S). The DUNs number (code 1) of his organization is CH2333468.
2/PER/375		PER*IC**TE*5016264343*FX*5016263434@	Mr. McRae's commercial telephone number is (501) 626-4343. His Fax number is (501) 626-3434.
2/DMG/380		DMG***M**N*1@	Mr. McRae is a male (code M) who is black (code N) and a U.S. citizen (code 1).
2/N9/400	N9-3	N9*DP*Department of Life Sciences@	Mr. McRae's SSN (code SY) is 497-68-9544. His date of birth is May 4, 1947.

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Position	Loop	ASC X12 EDI Transmission Format	Definition
2/N9/400		N9*SY*497689544**470504@	Mr. McRae's SSN (code SY) is 497-68-9544. His date of birth is May 4, 1947.
2/N9/400		N9*L4*D.1@	The paragraph number (code L4) identifies a user defined set of text groups. In this case it identifies the individual's experience (D.1).
2/MTX/410		MTX*Mr. McRae has extensive experience in investigating...@	Summary of Mr. McRae's experience.
2/DEG/420	DEG-3	DEG*4.2*CM*196506@	Mr. McRae has a master's degree (code 4.2) - awarded in June of 1965.
2/FOS/430		FOS*M*71*ATMOSPH@	The major (code M) for the degree was in atmospheric physics.
2/N1/440		N1*1R**1*457931266@	The degree was conferred by a University, College, or school whose DUNs number is 457931266.
2/HL/010	HL-1	HL*2*1*AS@	This second HL loop defines an Animal Subjects loop (code AS) - subordinate to the prior Project loop.
2/QTY/020		QTY*S7*9*MO@	The oldest (code S7) animal in the group is 9 months old.
2/QTY/020		QTY*S8*4*MO@	The youngest (code S8) animal in the group is 9 months old.
2/QTY/020		QTY*TO*20@	There are 20 animals in the group.
2/AMT/030		AMT*SP*5@	The animal purchase price (code SP) of each animal is \$5.
2/PAM/060		PAM*DY*90*DA*PY*10@	The animals will be housed for an average of 90 days each, and the daily cost for housing will be \$10.
2/N9/100	N9-2	N9*L4*H.1@	The paragraph number (code L4) identifies a user defined set of text groups. In this case it identifies the species of animal being used in the test (H.1).
2/MTX/110		MTX*The test group consists of white mice...@	This text group describes the species.
2/N9/100		N9*43*MATRIX@	Indicates (code 43 - supporting document) that a Matrix title will follow.
2/MTX/110		MTX*Effects of Various Breakfast Foods on the Growth Rate of ...@	The matrix title.
2/INX/120	INX-3	INX*1*1:A1:E1@	This is the beginning of the matrix (code 1) - using an absolute reference. The load pattern will be left to right (code 1). The loading range will begin at A1 and end at E1.
2/K3/130		K3*@	The first cell is null.
2/K3/130		K3*Male-Small@	The second cell has a content of Male-Small.

Position	Loop	ASC X12 EDI Transmission Format	Definition
2/K3/130		K3*Male-Large@	The third cell has a content of Male-Large.
2/K3/130		K3*Female-Small@	The fourth cell has a content of Female-Small.
2/K3/130		K3*Female-Large@	The fifth cell has a content of Female-Large.
2/INX/120		INX*3*1:A3:E3@	This is the continuation of the matrix (code 3) - using an absolute reference. The load pattern remains left to right (code 1). The loading range will begin at A3 and end at E3.
2/K3/130		K3*Food Group 2@	The first cell has a content of Food Group 2.
2/K3/130		K3*6@	The second cell has a content of 6.
2/K3/130		K3*10@	The third cell has a content of 10.
2/K3/130		K3*4@	The fourth cell has a content of 4.
2/K3/130		K3*2@	The fifth cell has a content of 2.
2/LX/330	LX-2	LX*3@	Third iteration of the LX loop.
2/NM1/340		NM1*61*2*****1*RIA774932@	The research will be performed at a research institute (code 61) identified by DUNS No. RIA774932.
2/HL/020	HL-1	HL*3*1*OS@	Identifies the third iteration of the HL loop. This iteration is subordinate to the first iteration (project) and is an Other Support Loop (code OS).
2/PAM/060		PAM*37*24*MO*80*10000*CY*193*951001*245*980930**AN*.75@	The Other Support represents active support (code 37). It is providing 24 months of support. It is based on a calendar year (code CY) and the total amount is \$100,000. The work started (code 193) on October 1, 1995 and is scheduled to end (code 194) on September 30, 1998. The individual will be spending .75 of their annual work hours on the other support project.
2/LX/330	LX-2	LX*4@	The fourth iteration of the LX loop.
2/N9/400	N9-3	N9*K5*GOALS*1@	Indicates the goals of the project providing other support (code K5). N903 cross-references to the first iteration of the LX/NM101 loop as being the individual (Dr. Jones) receiving the other support.
2/MTX/410		MTX*The object of this project is to establish...@	Use one or more MTX segments to describe the goals.
2/N9/400		N9*YV*OVERLAP@	Indicates the overlap (code YV) between the other support project and the project being submitted.

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Position	Loop	ASC X12 EDI Transmission Format	Definition
2/MTX/410		MTX*The funded projects is complementary to the work being submitted in that it...@	Use one or more MTX segments to describe the overlap between the project.
2/LX/330	LX-2	LX*5@	Fifth iteration of the LX loop.
2/NM1/340		NM1*92*2*****10*DOE479@	Indicates the organization (code 2) providing (code 92) the other support. It is identified by a DoDAAC number (10) of DOE479.
2/LX/330	LX-2	LX*6@	Sixth iteration of the LX loop.
2/NM1/340		NM1*9P*1*Jones*Pat*W*Dr**1*CH2333468@	Dr. Jones is also the principal investigator (code 9P) in the project receiving other support. The DUNs number (code 1) of his organization is CH2333468.
2/HL/010	HL-1	HL*4**SP@	This is the fifth iteration of the HL loop. It is the Sub-project (Code SP) loop.
2/DTM/050		DTM*193*980801@	The planned sub-project start date (code 193) is August 1, 1998.
2/PAM/060		PAM*A3*6*MO@	The planned duration (code A3) of this sub-project is 6 months (code MO).
2/N9/100	N9-2	N9*L4*A@	Indicates that a text paragraph (L4) will be provided in the following MTX segment. In this case it identifies an Abstract (code A).
2/MTX/110		MTX*This subproject will identify means to develop and manufacture foods with... *results are expected.@	Provides the Abstract (N902 code A). MTX segment is used to provide the sub-project Abstract.
2/PPL/170	PPL-2	PPL*T*AA@	Begins the detailed budget data for the total sub-project (letter T= all years). The budget reflects the actual unadjusted costs. Note: since this sub-project will have a duration of one year or less only a single PPL loop iteration will occur.
2/PD/190	PD-3	PD*CY*980101*DO:8S*40000*LABOR-COI**01*1*Jones,Phil,J.@	The budget item is based on calendar year (code CY) starting January 1, 1998. The item unit of measure is dollars/yr (annual salary), the value is \$40,000. The budget item is the labor cost of the Co-investigator which is classified in the budget category of labor (code 01). There is 1 individual in the labor group and that individual's name is Phil J. Jones.
2/PDD/200		PDD*12*4*12000@	There are 12 months in the calendar year. The level of effort is 4 months. The request is for \$12,000.
2/PD/190	PD-3	PD*CY*980101*DO*1*MATERIALS***3@	The budget item is based on calendar year starting in January 1, 1998. The item unit of measure is dollars and the value is 1. The budget item is materials which is in the budget category of materials (code 43).

Position	Loop	ASC X12 EDI Transmission Format	Definition
2/PDD/200		PDD*12**2000@	There are 12 months in the calendar year. The request is for \$2,000.
2/PD/190	PD-3	PD*CY*980101*DO*1*PROJECT TOTAL**36@	The budget item is based on calendar year (code CY) starting on January 1, 1998. The item unit of measure is dollars and the value is 1. The budget item is project-total which is in the budget category of Total (code 36).
2/PDD/200		PDD*12**50000@	There are 12 months in the calendar year. The request is for \$50,000.
2/LX/330	LX-2	LX*7@	Seventh iteration of the LX loop.
2/NM1/340		NM1*9S*1*Jones*Paula*J*Dr**1*C H3444579@	A Co-investigator (code 9S) is Dr. Paula J. Jones. The DUNS number (code 1) of her organization is CH3444579.
2/PER/375		PER*IC*TE*3139884649*FX*31398 84800*EM*pjones@uh.org@	Ms. Jones' commercial telephone no. (code TE) is (313) 988-4649, her facsimile no. is (313) 988-4800, and her e-mail address is pjones@uh.org.
2/DMG/380		DMG***F**O*1@	Paula Jones is a female (code F) and is white (code O) and is a U.S. citizen (code
2/N9/400	N9-3	N9*SY*444924192**750501@	Ms. Jones' SSN (code SY) is 444-92-4192. Her date of birth is May 1, 1975.
2/N9/400	N9-3	N9*L4*D.1@	The paragraph number (code L4) identifies a user defined set of text groups. In this case it identifies the individual's experience (D.1).
2/MTX/410		MTX*Ms. Jones has extensive experi- ence in investigating...@	Summary of Ms. Jones experience.
2/DEG/420	DEG-3	DEG*4.4*CM*199706@	Dr. Jones has a doctoral degree (code 4.4) - awarded in June of 1997.
2/FOS/430		FOS*M*71*NUTRN@	The major for the degree was in nutrition.
2/N1/440		N1*1R**1*457931266@	The degree was conferred by a University, College, or school whose DUNS number is 457931266.
2/HL/010	HL-1	HL*5*2*AS@	This fifth HL loop is subordinate to the prior sub-project loop (2). Defines an Animal Subject loop (code AS).
2/QTY/020		QTY*S7*9*MO@	The oldest (code S7) animal in the group is 9 months old.
2/QTY/020		QTY*S8*4*MO@	The youngest (code S8) animal in the group is 4 months old.
2/QTY/020		QTY*TO*30@	There are 30 animals in the group.
2/AMT/030		AMT*SP*5@	The price of each animal is \$5.
2/PAM/060		PAM*DY*90*DA*PY*10@	The animals will be housed for an average of 90 days each, and the daily cost for housing will be \$10.

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Position	Loop	ASC X12 EDI Transmission Format	Definition
2/N9/100	N9-2	N9*L4*H.1@	The paragraph number (code L4) identifies a user defined set of text groups. In this case it identifies the species of animal being used in the test (H.1).
2/MTX/110		MTX*The test group consists of white mice...@	This text group describes the species.
2/SE/480		SE*133*0001@	

Chapter 3

850 Purchase Order (Award) Implementation Convention

IMPLEMENTATION CONVENTION

This chapter contains segments and data elements from the federally approved 850 Purchase Order IC (Version Control Number 003050FED01A Revision 1, regenerated as 003050F850_1—National Institute of Standards and Technology (NIST) Special Publication 881-431), which are to be used to transmit grant award data. The 850 Purchase Order IC is based on version release 003050 of the X12 standard. The federally approved 850 Purchase Order IC contains several more segments and data elements than what is needed to transmit grant award data. Therefore, for simplicity, this chapter contains only those segments designated to pass grant award data.

Within the IC, separate tables provide programmers with agency-specific usage information. The legend below identifies the letters used in the agency tables.

Letter	Usage Explanation
A	As Applicable
N/U	Not Used
M	Mandatory

If there is no entry in the table, the IC notes provide sufficient information. In addition, within the tables there are references to endnotes that provide more detail for agency-specific implementation. The notes are intended to provide further agency-specific clarification.

¹ Posted on the Internet at <http://snad/ncsl.nist.gov/dartg/edi/3050-ic.html>

850 Purchase Order

Functional Group ID=**PO**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Notes:

1. The term "award instrument" used in this convention includes, but is not limited to, the following terms: Agreement, Blanket Purchase Agreement, Contract, Basic Agreement, Basic Ordering Agreement, Grant, Indefinite Delivery Indefinite Quantity, Purchase Order, Indefinite Delivery Definite Quantity, Requirements, Letter Contract, Task Order, Lease, Release, Call, and Delivery Order.

2. This transaction set is used to issue an original award instrument. If buyer initiated changes need to be made to a procurement instrument, use the Purchase Order Change Request - Buyer Initiated, 860 transaction set. Seller requested changes are initiated using the Purchasing Order Change Acknowledgment/Request - Seller Initiated, 865 transaction set.

The Federal 850 Purchase Order implementation convention is the basis for this document. Segments not used in a Federal Grant Award have been deleted for simplification purposes.

Heading:

	<u>Pos.</u>	<u>Seg.</u>		<u>Req.</u>		<u>Loop</u>	<u>Notes and</u>
	<u>No.</u>	<u>ID</u>	<u>Name</u>	<u>Des.</u>	<u>Max.Use</u>	<u>Repeat</u>	<u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BEG	Beginning Segment for Purchase Order	M	1		
N/U	030	NTE	Note/Special Instruction	F	100		
	040	CUR	Currency	O	1		
	050	REF	Reference Numbers	O	>1		
N/U	060	PER	Administrative Communications Contact	O	3		
N/U	070	TAX	Tax Reference	O	>1		
	080	FOB	F.O.B. Related Instructions	O	>1		
N/U	090	CTP	Pricing Information	O	>1		
N/U	095	PAM	Period Amount	O	10		
	110	CSH	Header Sale Condition	O	5		

		LOOP ID - SAC			25	
	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
N/U	125	CUR	Currency	O	1	
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
	140	DIS	Discount Detail	O	20	
N/U	145	INC	Installment Information	O	1	
	150	DTM	Date/Time Reference	O	10	
	160	LDT	Lead Time	O	12	
N/U	180	LIN	Item Identification	O	5	n1
N/U	185	SI	Service Characteristic Identification	O	2	
	190	PID	Product/Item Description	O	200	
	200	MEA	Measurements	O	40	
	210	PWK	Paperwork	O	25	
	220	PKG	Marking, Packaging, Loading	O	200	
N/U	230	TD1	Carrier Details (Quantity and Weight)	O	2	
	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
N/U	250	TD3	Carrier Details (Equipment)	O	12	
	260	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
	270	MAN	Marks and Numbers	O	10	
N/U	280	CTB	Restrictions/ Conditions	O	5	
	285	TXI	Tax Information	O	>1	
		LOOP ID - AMT			>1	
	287	AMT	Monetary Amount	O	1	
	288	AT	Financial Accounting	O	1	
	289	REF	Reference Numbers	O	>1	
		LOOP ID - N9			1000	
	290	N9	Reference Number	O	1	
	300	MSG	Message Text	O	1000	
		LOOP ID - N1			200	
	310	N1	Name	O	1	
	320	N2	Additional Name Information	O	2	
	330	N3	Address Information	O	2	
	340	N4	Geographic Location	O	>1	
N/U	345	NX2	Real Estate Property ID Component	O	3	
	350	REF	Reference Numbers	O	12	
	360	PER	Administrative Communications Contact	O	>1	
N/U	370	FOB	F.O.B. Related Instructions	O	1	
N/U	380	TD1	Carrier Details (Quantity and Weight)	O	2	
	390	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
N/U	400	TD3	Carrier Details (Equipment)	O	12	
	410	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
	420	PKG	Marking, Packaging, Loading	O	200	
		LOOP ID - LM			>1	
	430	LM	Code Source Information	O	1	
	440	LQ	Industry Code	M	>1	

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		LOOP ID - SPI			>1
	450	SPI	Specification Identifier	O	1
	460	REF	Reference Numbers	O	5
	470	DTM	Date/Time Reference	O	5
	480	MSG	Message Text	O	50
		LOOP ID - N1			20
	490	N1	Name	O	1
	500	N2	Additional Name Information	O	2
	510	N3	Address Information	O	2
	520	N4	Geographic Location	O	1
N/U	530	REF	Reference Numbers	O	20
	540	G61	Contact	O	1
	550	MSG	Message Text	O	50
		LOOP ID - CB1			>1
	560	CB1	Contract and Cost Accounting Standards Data	O	1
	570	REF	Reference Numbers	O	20
	580	DTM	Date/Time Reference	O	5
	590	LDT	Lead Time	O	1
	600	MSG	Message Text	O	50

Detail:

	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Loop</u>	<u>Notes and</u>
	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Max.Use</u>	<u>Repeat</u>
						<u>Comments</u>
			LOOP ID - PO1			100000
Must Use	010	PO1	Baseline Item Data	M	1	n2
N/U	018	SI	Service Characteristic Identification	O	5	
N/U	020	CUR	Currency	O	1	
	025	CN1	Contract Information	O	1	
	030	PO3	Additional Item Detail	O	25	
	040	CTP	Pricing Information	O	>1	
N/U	045	PAM	Period Amount	O	10	
	049	MEA	Measurements	O	40	
			LOOP ID - PID			1000
	050	PID	Product/Item Description	O	1	
N/U	060	MEA	Measurements	O	10	
	070	PWK	Paperwork	O	25	
	090	PO4	Item Physical Details	O	>1	
	100	REF	Reference Numbers	O	>1	
	110	PER	Administrative Communications Contact	O	3	
			LOOP ID - SAC			25
	130	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
N/U	135	CUR	Currency	O	1	
	140	IT8	Conditions of Sale	O	1	
	150	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
	160	DIS	Discount Detail	O	20	
N/U	165	INC	Installment Information	O	1	
N/U	170	TAX	Tax Reference	O	>1	

	180	FOB	F.O.B. Related Instructions	O	>1	
	190	SDQ	Destination Quantity	O	500	
N/U	200	IT3	Additional Item Data	O	5	
	210	DTM	Date/Time Reference	O	10	
N/U	235	TC2	Commodity	O	2	
N/U	240	TD1	Carrier Details (Quantity and Weight)	O	1	
	250	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
N/U	260	TD3	Carrier Details (Equipment)	O	12	
	270	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
	280	MAN	Marks and Numbers	O	10	
	289	MSG	Message Text	O	>1	
	291	SPI	Specification Identifier	O	>1	
	292	TXI	Tax Information	O	>1	
LOOP ID - SCH					200	
	295	SCH	Line Item Schedule	O	1	n3
N/U	296	TD1	Carrier Details (Quantity and Weight)	O	2	
N/U	297	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
N/U	298	TD3	Carrier Details (Equipment)	O	12	
N/U	299	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
LOOP ID - PKG					200	
	300	PKG	Marking, Packaging, Loading	O	1	
N/U	310	MEA	Measurements	O	>1	
	320	LS	Loop Header	O	1	
LOOP ID - LDT					>1	
	321	LDT	Lead Time	O	1	
	322	QTY	Quantity	O	>1	
	323	MSG	Message Text	O	1	
	324	REF	Reference Numbers	O	3	
LOOP ID - LM					>1	
	325	LM	Code Source Information	O	1	
Must Use	326	LQ	Industry Code	M	>1	
	327	LE	Loop Trailer	O	1	
LOOP ID - N9					1000	
	330	N9	Reference Number	O	1	
N/U	335	MEA	Measurements	O	40	
	340	MSG	Message Text	O	1000	
LOOP ID - N1					200	
	350	N1	Name	O	1	
	360	N2	Additional Name Information	O	2	
	370	N3	Address Information	O	2	
	380	N4	Geographic Location	O	1	
N/U	385	NX2	Real Estate Property ID Component	O	3	
	390	REF	Reference Numbers	O	12	
	400	PER	Administrative Communications Contact	O	3	
N/U	410	FOB	F.O.B. Related Instructions	O	1	

850 Purchase Order (Award) Implementation Convention

	415	SCH	Line Item Schedule	O	200		
N/U	420	TD1	Carrier Details (Quantity and Weight)	O	2		
	430	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
N/U	440	TD3	Carrier Details (Equipment)	O	12		
	450	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5		
	460	PKG	Marking, Packaging, Loading	O	200		
					LOOP ID - LDT		>1
	462	LDT	Lead Time	O	1		
	464	MAN	Marks and Numbers	O	10		
	466	QTY	Quantity	O	5		
	468	MSG	Message Text	O	1		
	469	REF	Reference Numbers	O	3		
					LOOP ID - SLN		1000
N/U	470	SLN	Subline Item Detail	O	1		
N/U	480	SI	Service Characteristic Identification	O	5		
N/U	490	PID	Product/Item Description	O	1000		
N/U	500	PO3	Additional Item Detail	O	104		
N/U	505	TC2	Commodity	O	2		
					LOOP ID - SAC		10
N/U	510	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
N/U	515	CUR	Currency	O	1		
N/U	520	DTM	Date/Time Reference	O	10		
N/U	522	CTP	Pricing Information	O	25		
N/U	523	PAM	Period Amount	O	10		
N/U	524	PO4	Item Physical Details	O	1		
N/U	527	TAX	Tax Reference	O	3		
					LOOP ID - N1		10
N/U	530	N1	Name	O	1		
N/U	540	N2	Additional Name Information	O	2		
N/U	550	N3	Address Information	O	2		
N/U	560	N4	Geographic Location	O	1		
N/U	570	NX2	Real Estate Property ID Component	O	3		
N/U	580	REF	Reference Numbers	O	12		
N/U	590	PER	Administrative Communications Contact	O	3		
					LOOP ID - AMT		>1
	600	AMT	Monetary Amount	O	1		
	610	REF	Reference Numbers	O	1		
					LOOP ID - LM		>1
	620	LM	Code Source Information	O	1		
Must Use	630	LQ	Industry Code	M	>1		

Summary:

	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Loop</u>	<u>Notes and</u>
	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Max.Use</u>	<u>Comments</u>
Must Use	010	CTT	Transaction Totals	M	1	n4
	020	AMT	Monetary Amount	O	1	n5
Must Use	030	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

1. If segment LIN is used, do not use LIN01.
2. PO102 is required.
3. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
4. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.
5. If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes:

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
ST ¹	M	M	M	M	M	M	M

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 X12.1 Purchase Order	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>This unique control number is assigned by the originator of the transaction set or by the originator's application program. This number is carried in SE02.</i>	M AN 4/9

Segment: **BEG** Beginning Segment for Purchase Order
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Syntax Notes:

Semantic Notes: 1 BEG05 is the date assigned by the purchaser to purchase order.

Comments:

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
BEG ²	M	M	M	M	M	M	M

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
Must Use	BEG01	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		<i>Use to identify the purpose of the transaction set.</i>	
		00 Original	
		<i>Use to indicate an original award instrument. When this code is used, changes to the award instrument can be only made with a Purchase Order Change Request - Buyer Initiated, 860 transaction set.</i>	
		07 Duplicate	
		<i>Use to indicate a re-transmission of an original 850 transaction set.</i>	
		22 Information Copy	
		<i>Use to indicate an information copy of an original award instrument. This information copy is sent to addressees other than the selling party.</i>	
		24 Draft	
		<i>Use to indicate a draft award instrument (850 transaction set) is being sent to the selling party.</i>	

CODE ³	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
00	A	A	A	A	A	A	A
07							
22							
24							

Must Use BEG02 92 Purchase Order Type Code M ID 2/2

Code specifying the type of Purchase Order

Use to identify the type of award instrument represented by this transaction set.

- BL Bailment
- KA Agreement
Use to indicate cooperative agreements and other agreements.
- KB Blanket Purchase Agreement
- KC Contract
- KD Basic Agreement
- KE Basic Ordering Agreement
- KG Grant
- KI Indefinite Delivery Indefinite Quantity
- KN Purchase Order
- KQ Indefinite Delivery Definite Quantity
- KR Requirements
- KS Letter Contract
- KT Task Order
- LS Lease
Use to indicate a lease agreement as the type of award instrument. When an equipment rental is awarded pursuant to another type of instrument (purchase order, delivery order, contract, etc.), use the appropriate listed code in this data element and use code ER in BEG10.
- RL Release or Delivery Order
Use to indicate a release, call or delivery order against existing contracts.

CODE ⁴	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
BL							
KA							
KB							
KC							
KD							
KE							
KG	A	A	A	A	A	A	A
KI							
KN							
KQ							
KR							
KS							
KT							
LS							
RL							

Must Use BEG03 324 Purchase Order Number M AN 1/22

Identifying number for Purchase Order assigned by the orderer/purchaser

Enter the purchase order number, contract number (including Federal Supply Schedules, General Services Administration (GSA) Schedules and all other basic contracts), Blanket Purchase Agreement (BPA) number, Grant, Lease or Agreement number. This is always the Procurement Instrument Identification Number (PIIN) for the Department of Defense (DOD) or the equivalent expression for Civilian Agencies. This is never the number of a delivery order, call or release against a basic award instrument. That number is carried in BEG04. This number shall be transmitted without dashes.

DATA ELEMENT ⁵	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
324	M	M	M	M	M	M	M

BEG04 328 Release Number O AN 1/30

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Enter the number of a release, call or delivery order against a basic award instrument. This is always the Supplemental Procurement Instrument Identification Number (SPIIN) for DOD or the equivalent expression for Civilian Agencies. This number shall be transmitted without dashes.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
328							

Must Use BEG05 373 Date M DT 6/6

Date (YYMMDD)

1. Enter the effective date of the award instrument. If both BEG03 and BEG04 contain a number, enter the date of the delivery order, call or release identified in BEG04. If BEG04 does not contain a number, enter the date of the award instrument identified in BEG03.

2. If the signature date is different from the effective date, the signature date may be specified in 1/DTM/150, citing code 467 in DTM01.

DATA ELEMENT ⁶	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
373	M	M	M	M	M	M	M

BEG06 367 Contract Number O AN 1/30

Contract number

Use to identify the Small Business Administration (SBA) contract number for an 8a set-aside. The SBA office issuing this contract is cited in the 1/N1/310 segment by use of code C9 in N101.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
367	N/U	N/U	N/U	N/U	N/U	N/U	N/U

BEG07 587 Acknowledgment Type O ID 2/2

Code specifying the type of acknowledgment

Acknowledgments are made using the Purchase Order Acknowledgment, 855 transaction set.

AC Acknowledge - With Detail and Change
Use to indicate acknowledgment of this 850 transaction set is required using the available segments in the 855 transaction set and re-transmitting the same data in corresponding segments in the 850 transaction set. Changes are permitted.

AD Acknowledge - With Detail, No Change
Use to indicate acknowledgment of this 850 transaction set is required using the available segments in the 855 transaction set and re-transmitting the same data in corresponding segments in the 850 transaction set without change.

- AK Acknowledge - No Detail or Change
Use to indicate acknowledgment of this 850 transaction set is required using only the mandatory segments in the 855 transaction set.
- AT Accepted
Use to indicate that acceptance or rejection of this 850 transaction set is required.

CODE ⁷	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AT							

BEG09 1166 Contract Type Code O ID 2/2

Code identifying a contract type
Use to identify the type of pricing arrangement applicable to the award instrument. If there are line items that have a different pricing arrangement, that pricing arrangement should be specified in the CN1 segment within the PO1 loop that is applicable to that line item. Both BEG09 and the 2/CN1/025 segment can be included in the transaction set if needed.

- CA Cost Plus Incentive Fee (With Performance Incentives)
- CB Cost Plus Incentive Fee (Without Performance Incentives)
- CH Cost Sharing
- CS Cost
- CW Cost Plus Award Fee
- CX Cost Plus Fixed Fee
- FB Fixed Price Incentive Firm Target (With Performance Incentive)
- FC Fixed Price Incentive Firm Target (Without Performance Incentive)
- FD Fixed Price Redetermination
Use to indicate a prospective fixed price redetermination award instrument.
- FF Fixed Price Incentive Successive Target (With Performance Incentive)
- FG Fixed Price Incentive Successive Target (Without Performance Incentive)
- FH Fixed Price Award Fee
- FJ Fixed Price Level of Effort
- FK No Cost
- FR Firm Fixed Price
- FX Fixed Price with Economic Price Adjustment
- LH Labor Hours
- TM Time and Materials

ZZ Mutually Defined
Use to indicate a retroactive fixed price re-termination award instrument.

CODE ⁸	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
CH							
CS							
FJ							
FR							

BEG10 1232 Purchase Category O ID 2/2

Code identifying the broad category of products or services being acquired

Use to identify the category of this award instrument.

- AE Architect and Engineering
- CN Construction
- DR Demolish, Dismantle or Replace
- ER Equipment Rental
- IR Inspect and Repair as Necessary
- MD Modification
- OV Overhaul
- RD Research and Development
Use also includes traineeships and fellowships.
- RE Repair
- SB Shipbuilding
- SP Supplies
- SU Subsistence
- SV Services
- TE Test and Evaluation
- UT Utilities

CODE ⁹	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AE							
CN							
DR							
ER							
IR							
MD							
OV							
RD							
RE							
SB							
SP							
SU							
SV							
TE							
UT							

BEG11 786 Security Level Code O ID 2/2
 Code indicating the level of confidentiality assigned by the sender to the information following
Use to identify the highest level of Government security classification applicable to the award instrument.
 92 Government Confidential
 93 Government Secret
 94 Government Top Secret

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
	N/U	N/U	N/U	N/U	N/U	N/U	N/U

Segment: **REF** Reference Numbers
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: *Use this 1/REF/050 segment to identify reference numbers that apply to all of the line items. If the reference numbers vary by line item, use the 2/REF/100 segment.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
REF	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Number Qualifier	M ID 2/2
			Code qualifying the Reference Number.	
			16 Military Interdepartmental Purchase Request (MIPR) Number	
			2E Foreign Military Sales Case Number <i>Use to indicate a Foreign Military Sale (FMS).</i>	
			2S Catalog <i>Use to indicate the Catalog of Federal Domestic Assistance. This is where additional information regarding the program funding source can be found.</i>	
			2Y Wage Determination <i>Use to indicate a Department of Labor Wage Determination number. Use if the Wage Determination is passed by reference only or to identify the Wage Determination passed by some other means identified in the PWK segment.</i>	
			73 Statement of Work (SOW) <i>If a Statement of Work is part of the award, the PWK segment can be used to indicate how the SOW is being provided.</i>	
			97 Package Number	

AH	Agreement Number <i>Use to indicate a Union Agreement number.</i>
BL	Government Bill of Lading
CR	Customer Reference Number <i>Use to indicate the internal number the contractor assigned to the buying party.</i>
DG	Drawing Number
DS	Defense Priorities Allocation System (DPAS) Priority Rating <i>When used, the code cited in REF02 is a 4 position code.</i>
E4	Charge Card Number <i>Use to indicate the Government credit card number under which payment for this instrument will be accomplished.</i>
IJ	Standard Industry Classification (SIC) Code <i>Use to indicate the Standard Industrial Classification (SIC) Code applicable to this award instrument.</i>
IL	Internal Order Number <i>Use to indicate the requisition (e.g., Military Standard Requisitioning and Issue Procedures (MILSTRIP) or Federal Standard Requisitioning and Issue Procedures (FEDSTRIP) document number).</i>
IQ	End Item <i>Use to indicate the end item to which the items in the award instrument pertains.</i>
IX	Item Number <i>Use to indicate a Federal supply schedule (FSS) special item number.</i>
K4	Criticality Designator <i>Use to indicate the surveillance criticality designator applicable to the award instrument.</i>
KS	Solicitation <i>Use to indicate the solicitation number that resulted in this award instrument. If applicable, concatenate the LAST amendment number with the solicitation number.</i>
LT	Lot Number
NI	Military Standard (MIL-STD) Number
NJ	Technical Document Number
NL	Technical Order Number
P4	Project Code <i>Use to indicate the project number applicable</i>

	<i>to this award instrument.</i>
PH	Priority Rating <i>Use to indicate the MILSTRIP/FEDSTRIP priority rating.</i>
PR	Price Quote Number <i>Use to indicate the contractor's quote or offer number.</i>
QC	Product Specification Document Number
RQ	Purchase Requisition No. <i>Use to indicate the Purchase Request (PR) number or the Purchase Request Order Number (PRON). When citing a purchase request number, concatenate its line item number with the purchase request number if it is necessary to transmit both numbers.</i>
RS	Returnable Container Serial Number
S2	Military Specification Number (MILSPEC)
S3	Specification Number <i>Use to indicate a specification number other than a Military Specification (MIL-SPEC). When used, cite the specification number in REF02 and identify the issuing activity in REF03.</i>
T4	Signal Code
TG	Transportation Control Number (TCN)
TN	Transaction Reference Number <ol style="list-style-type: none"><i>Use to indicate the unique reference number of a related transaction set (e.g. an 841 transaction set carrying a related technical specification or drawing). Each transaction set has a unique number. In the case of the 841 transaction set, that number is carried in SPI02.</i><i>When used, cite the related transaction set's unique number in REF02 and cite the X12 transaction set designator of the related transaction set, e.g., 841, in REF03.</i>
TP	Test Specification Number
VW	Standard <i>Use to indicate a standard other than a Military Standard (MIL-STD). When used, cite the standard number in REF02, e.g., ASTM D3951, and, if necessary, further identify the</i>

standard in REF03.

W2 Weapon System Number
Use to indicate the Weapon System Code.

W8 Suffix
Use to indicate a MILSTRIP/FEDSTRIP requisition suffix number. This code can be used if there is ONLY one occurrence of the REF segment with code IL in REF01.

WF Locally Assigned Control Number

XC Cargo Control Number
Use to indicate a tracking number for bulk fuel being sent by a tanker vessel.

XE Transportation Priority Number

ZZ Mutually Defined
Use to indicate another type of reference number. When used, identify the nature of the number in REF03.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
2S ¹⁰	M	M	M	M	M	M	M
DS ¹¹	A	A	A	A	A	A	A
P4 ¹²	A	A	A	A	A	A	A
PR ¹³	A	A	A	A	A	A	A

REF02 127 Reference Number X AN 1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

If a document has a revision or extension, the document number and the revision or extension number should be concatenated and cited in this data element.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
127	A	A	A	A	A	A	A

REF03 352 Description X AN 1/80

A free-form description to clarify the related data elements and their content

1. *Use to carry additional information related to a reference number cited in REF02.*
2. *Use of free form text is discouraged if the information can be provided by some other means within the transaction set.*

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
352	N/U	N/U	N/U	N/U	N/U	N/U	N/U

Segment: **DTM** Date/Time Reference
Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 At least one of DTM02 DTM03 or DTM06 is required.
 2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes: 1. Use this 1/DTM/150 segment to identify dates that apply to all of the line items. When the dates vary by line item, use the 2/DTM/210 segment.

2. This segment can be used to provide a delivery date when it is expressed as an actual date. If the delivery schedule is expressed as a set time period after the occurrence of some event, use the 1/LDT/160 segment.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
DTM	M	M	M	M	M	M	M

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
Must Use	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		002 Delivery Requested	
		<i>Use when the delivery date of the order does not conform to the basic Indefinite Delivery Contract (IDC) instrument.</i>	
		007 Effective	
		<i>Use with codes RD6 or RD8 in DTM06 to indicate the ordering period of an Agreement or an IDC award instrument. Specify the date range in DTM07.</i>	
		017 Estimated Delivery	
		063 Do Not Deliver After	
		<i>Use to indicate that deliveries cannot be made after a specified date and/or time.</i>	
		064 Do Not Deliver Before	
		<i>Use to indicate that deliveries cannot be made before a specified date and/or time.</i>	
		077 Requested for Delivery (Week of)	
		<i>When this code is used cite the beginning day of the week.</i>	

093	Contract Expiration <i>Use to indicate the expiration date for an award instrument.</i>
106	Required By <i>Use to indicate delivery is due exactly on the date specified.</i>
174	Month Ending <i>Use to indicate delivery is required within the specified month. In DTM02, identify the month and cite the last calendar day of the month.</i>
193	Period Start <i>Use to indicate the start of a period of performance or lease.</i>
194	Period End <i>Use to indicate the end of a period of performance or lease.</i>
368	Submittal <i>When REF01 is code TN, use to indicate the date of a related transaction set.</i>
375	Delivery Start <i>Use to indicate the start date/time for deliveries when the total quantity is to be delivered during a specified period.</i>
376	Delivery End <i>Use to indicate the end date/time when the total quantity is to be delivered during a specified period.</i>
467	Signature <i>Use to indicate the date that the award instrument was signed if different from the effective date specified in BEG05.</i>
937	Department of Labor Wage Determination Date <i>Use to indicate the date of a Department of Labor Wage Determination. If revisions or modifications are applicable to a Wage Determination, cite the date of the most recent revision or modification in DTM02.</i>
994	Quote <i>When REF01 is code PR, use to indicate the date of the quote or offer.</i>
996	Required Delivery <i>Use to indicate delivery is due on or before the specified date.</i>

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
007 ¹⁴	M	M	M	M	M	M	M
093 ¹⁵							
193 ¹⁶							
194 ¹⁷							

DTM02 373 Date X DT 6/6
Date (YYMMDD)

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
373	M	M	M	M	M	M	M

DTM03 337 Time X TM 4/8
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)
Use, if applicable, to identify the time for a delivery. Specify time only in the HHMM format.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
337	N/U	N/U	N/U	N/U	N/U	N/U	N/U

DTM04 623 Time Code O ID 2/2
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow
Use only when DTM03 is used to express a time.

- CT Central Time
- ET Eastern Time
- GM Greenwich Mean Time
- LT Local Time
- MT Mountain Time
- PT Pacific Time

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
623	N/U	N/U	N/U	N/U	N/U	N/U	N/U

DTM05 624 Century O N0 2/2
The first two characters in the designation of the year (CCYY)

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
624	A	A	A	A	A	A	A

DTM06 1250 Date Time Period Format Qualifier X ID 2/3

Code indicating the date format, time format, or date and time format

1. *Use any code.*
2. *Use to qualify a date when it is necessary to express the date in other than YYYYMMDD format.*
3. *Use also to qualify a range of dates or times. Use of code RD6 or RD8 is preferred for expressing a date range. Refer to 003050 Data Element Dictionary for acceptable code values.*

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
1250	N/U	N/U	N/U	N/U	N/U	N/U	N/U
1251	N/U	N/U	N/U	N/U	N/U	N/U	N/U

DTM07 1251 Date Time Period X AN 1/35

Expression of a date, a time, or range of dates, times or dates and times

When used to identify a time range for deliveries on a specified date, use code RTM in DTM06 to qualify a delivery time range, e.g., for March 30, 1994 between 1:00 PM and 4:00 PM local time. Use DTM01/02 to convey the March 30, 1994 date.

- Segment:** **PID** Product/Item Description
- Position:** 190
- Loop:**
- Level:** Heading
- Usage:** Optional
- Max Use:** 200
- Purpose:** To describe a product or process in coded or free-form format
- Syntax Notes:**
- 1 If PID04 is present, then PID03 is required.
 - 2 At least one of PID04 or PID05 is required.
 - 3 If PID07 is present, then PID03 is required.
 - 4 If PID08 is present, then PID03 is required.
- Semantic Notes:**
- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 - 2 PID04 should be used for industry-specific product description codes.
 - 3 PID08 describes the physical characteristics of the product identified in PID04. A ``Y" indicates that the specified attribute applies to this item. A ``N" indicates it does not apply. Any other value is indeterminate.
- Comments:**
- 1 If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``X", then both PID04 and PID05 are used.
 - 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - 3 PID07 specifies the individual code list of the agency specified in PID03.
- Notes:**
1. Use this 1/PID/190 segment to provide an overall description that applies to all line items. When descriptions vary by line item, transmit a general description in this segment and use the 2/PID/050 segment to transmit the varying descriptions.
 2. Use is discouraged. Whenever possible, items should be described by successive iterations of 235/234 pairs in the 2/PO1/010 segment or by reference number. Use codified data whenever possible.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
PID ¹⁸	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
		S Structured (From Industry Code List)	
		X Semi-structured (Code and Text)	

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
F	M	M	M	M	M	M	M

PID02 750 Product/Process Characteristic Code O ID 2/3

Code identifying the general class of a product or process characteristic

Use any code.

Refer to 003050 Data Element Dictionary for acceptable code values.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
750	N/U	N/U	N/U	N/U	N/U	N/U	N/U

PID03 559 Agency Qualifier Code X ID 2/2

Code identifying the agency assigning the code values

Use any code other than code ZZ.

Refer to 003050 Data Element Dictionary for acceptable code values.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
559	N/U	N/U	N/U	N/U	N/U	N/U	N/U

PID04 751 Product Description Code X AN 1/12

A code from an industry code list which provides specific data about a product characteristic

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
751	N/U	N/U	N/U	N/U	N/U	N/U	N/U

PID05 352 Description X AN 1/80

A free-form description to clarify the related data elements and their content

Use of free form text is discouraged if the information can be provided by some other means within the transaction set.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
352	M	M	M	M	M	M	M

Segment: **AMT** Monetary Amount
Position: 287
Loop: AMT
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

- Notes:**
1. Use this 1/AMT/287 segment to specify the total amount of obligated funds for each accounting classification cited in the AT segment, or to specify amounts associated with incentive, award fee, fixed-fee, or cost sharing award instruments when the amounts apply to all of the line items.
 2. The following table identifies how each code listed in AMT01, other than code KC, is to be used depending on the code cited in BEG09.

COST, FEE, AND PRICE EXPRESSION TABLE

<i>BEG09 Code</i>	<i>AMT01 Code</i>	<i>AMT01 Code Use</i>
CA/CB	33	Target Cost
CA/CB	32	Target Fee
CA/CB	K5	Minimum Fee
CA/CB	K6	Maximum Fee
CH	KO	Contractor Firm Share
CH	70	Estimated Government Share
CS	NA	Use the 3/AMT/020 segment, code TT
CW/CX	33	Cost
CW	FE	Base Fee
CW	E9	Award Fee
CX	E9	Fixed Fee
FB/FC	33	Target Cost
FB/FC	32	Target Profit
FB/FC	30	Price Ceiling
FD	NA	For fixed-price contracts with prospective price redetermination, use the 3/AMT/020 segment, code 29 for contract total amount; and use the 2/AMT/600 segment code 1 when CN101 is code FR for Firm Fixed Price Items, and code 29 when CN101 is code FD for redeterminable items without a ceiling price or code 30 for redeterminable items with a ceiling price.

<i>ZZ</i>	<i>NA</i>	<i>For fixed-price contracts with retroactive price redetermination, use the 3/AMT/020 segment, code 30 for contract ceiling price; and use the 2/AMT/600 segment code 30 when CN101 is code ZZ for fixed ceiling price if items subject to differing contract type are present in the same contract.</i>
<i>FF/FG</i>	<i>ZQ</i>	<i>Initial Target Cost</i>
<i>FF/FG</i>	<i>K4</i>	<i>Initial Target Profit</i>
<i>FF/FG</i>	<i>K6</i>	<i>Target Profit Ceiling</i>
<i>FF/FG</i>	<i>K5</i>	<i>Target Profit Floor</i>
<i>FF/FG</i>	<i>30</i>	<i>Ceiling Price</i>
<i>FH</i>	<i>33</i>	<i>Fixed Price</i>
<i>FH</i>	<i>FE</i>	<i>Base Fee</i>
<i>FH</i>	<i>E9</i>	<i>Award Fee</i>
<i>FJ/FX/LH/TM</i>	<i>NA</i>	<i>Use the 2/AMT/600 segment, code 1 for fixed price line items; and the 3/AMT/020 segment, code TT for contract total amount</i>
<i>amount</i>		
<i>FK</i>	<i>NA</i>	<i>No cost or price information required</i>

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AMT	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	AMT01	522 Amount Qualifier Code	M ID 1/2
		Code to qualify amount	
		1. For the correct use of the following codes in various fee and profit arrangements by type of contract, see the table above.	
		2. Codes K8 and KC are to be used in accordance with the notes or definition associated with each code.	
		30 Contract Ceiling	
		32 Target Fee or Profit Amount	
		33 Original Contract Target Cost	
		70 Open Commitments	
		E9 Initial Fee	
		FE Fee	
		K4 Initial Target Fee	
		K5 Minimum Fee	

K6 Maximum Fee
 KC Obligated
Use when the AT segment carries long line accounting data and cite the associated accounting code in the 1/REF/289 segment, e.g., code AX for the ACRN.
 KO Committed Amount
 ZQ Initial Target Cost

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
70 ¹⁹							
KC ²⁰							
KO ²¹							
ZQ ²²							

Must Use AMT02 782 Monetary Amount
 Monetary amount

M R 1/15

DATA ELEMENT ²³	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
782	A	A	A	A	A	A	A

Segment: **AT** Financial Accounting
Position: 288
Loop: AMT
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit financial accounting data
Syntax Notes: 1 If AT10 is present, then AT01 is required.
Semantic Notes:
Comments: 1 AT09 identifies unique local activity financial accounting information.
Notes: Use this segment to provide the financial accounting data applicable to this award instrument.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AT ²⁴	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use AT02	1282 Treasury Symbol Number	O AN 7/21
	Number identifying a department, fiscal year, treasury account number, and appropriation limit for a standard accounting classification coding structure	
	<i>Cite the basic appropriation number in this data element (department code through appropriation limit). Example: 171795961810.0400.</i>	

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
1282	A	A	A	A	A	A	A

Must Use AT07	1287 Accountable Station Number	O AN 3/8
	Number identifying an office responsible for entering a financial transaction into the applicable accounting system for a standard accounting classification coding structure	
	<i>Cite the Accountable Station Number in this data element. The Accountable Station Code is the Fiscal Station Number (FSN) of both the Army and the Office of the Secretary of Defense (OSD), the Authorization Accounting Activity (AAA) of the Navy, or the Accounting and Disbursing Station Number (ADSN) used by the Air Force. The Accountable Station Codes (TAC3) are published in the DoD 7000.14-R (Financial Management Regulation). Civilian Agencies will cite their equivalent organization code.</i>	

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
1287	A	A	A	A	A	A	A

Must Use AT09 352 Description O AN 1/80
 A free-form description to clarify the related data elements and their content
Cite the balance of the financial accounting data which should include the Accountable Station Number cited in AT07.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
352	A	A	A	A	A	A	A

Segment: **REF** Reference Numbers
Position: 289
Loop: AMT
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: *Use this segment to identify a number or a code applicable to the financial accounting data cited in the preceding AT segment. This number or code can be cited in the 2/REF/610 segment in place of repeating the accounting data at the Detail level when it is necessary to associate the accounting data with an amount cited in the 2/AMT/600 segment.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
REF ²⁵	A	A	A	A	A	A	A

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use REF01	128	Reference Number Qualifier	M ID 2/2
		Code qualifying the Reference Number.	
		10 Account Managers Code	
		<i>Use to indicate an accounting code.</i>	
		1Z Financial Detail Code	
		AX Government Accounting Class Reference Number (ACRN)	
		FU Fund Code	
		P4 Project Code	
		TH Transportation Account Code (TAC)	

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
1Z							
AX							
FU							
P4							

REF02 **127** **Reference Number** **X AN 1/30**
Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
127	A	A	A	A	A	A	A

Segment: **N9** Reference Number
Position: 290
Loop: N9
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.

Comments:

Notes:

1. Use this 1/N9/290 loop to identify various clauses (e.g., Federal Acquisition Regulation (FAR), Defense Federal Acquisition Regulation Supplement (DFARS), General Services Administration Regulation Supplement (GSARS), Department of Veterans Affairs Acquisition Regulation Supplement (VAARS), Agency, or other clauses), Office of Management and Budget (OMB) Circular, special instructions or other references that are applicable to the entire award instrument. If the information varies by line item, use the 2/N9/330 segment.
2. When an Alternate section is applicable to a cited clause, the alpha/numeric Alternate identifier and the date MUST be cited in the following MSG segment.
3. When citing a clause in N902, the date of the clause MUST be cited in N904 and the title of the clause may be optionally cited in the following MSG segment.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
N9 ²⁶	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N901	128	Reference Number Qualifier
			Code qualifying the Reference Number.
		5N	Citation of Statute <i>Use to indicate the legislative authorization under which this instrument, e.g., a grant, is awarded. Cite the legislative program title in N903.</i>
		73	Statement of Work (SOW)
		AU	Authorization to Meet Competition No. <i>Use to indicate the FAR part 6 authority for</i>

BB	<p><i>using other than full and open competition.</i></p> <p>Authorization Number</p> <p><i>Use to indicate the Code of Federal Regulations.</i></p>
CJ	<p>Clause Number</p> <p><i>Use to indicate a purchasing activity clause (i.e., a clause not found in FAR, DFARS, etc.). Identify the purchasing activity issuing the clause in N903.</i></p>
DF	<p>Defense Federal Acquisition Regulations (DFAR)</p>
DX	<p>Department/Agency Number</p> <p><i>Use to indicate an Agency clause and identify the agency in N903.</i></p>
EC	<p>Circular</p> <p><i>Use to identify an Office of Management and Budget (OMB) circular number.</i></p>
FA	<p>Federal Acquisition Regulations (FAR)</p>
GS	<p>General Services Administration Regulations (GSAR)</p>
K7	<p>Paragraph Number</p> <p><i>Use to indicate information for a contractor. Cite an applicable number in N902 and provide the information in the following MSG segment. The numbering system can be based on the uniform contract format, e.g., H-1 for special requirements or any other numbering system the originator desires. An example of the use of this code is a notice to a successful offerer that the Government reserves the right to award the remainder of the line items in the offer within the allowed offer acceptance period.</i></p>
KD	<p>Special Instructions Number</p> <p><i>Use to indicate a special instruction. Indicate the agency or purchasing activity issuing the special instruction in N903. If this special instruction number is not included in previously provided terms and conditions, provide the full text in the following MSG segment.</i></p>

- KY Site Specific Procedures, Terms, and Conditions
- KZ Master Solicitation Procedures, Terms, and Conditions
Use to indicate the Master Solicitation number that contains applicable terms and conditions.
- VB Department of Veterans Affairs Acquisition Regulations (VAAR)
- ZZ Mutually Defined
Use to indicate any other reference that cannot use a specific qualifier code. Indicate the source of the reference in N903 and use the following MSG segment, if necessary, to pass text.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
5N							
73							
AU							
BB							
CJ							
DF							
DX							
EC							
FA							
GS							
K7							
KD							
KY							
KZ							
ZZ							

N902 **127** **Reference Number** **X** **AN 1/30**
 Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
127							

N903 **369** **Free-form Description** **X** **AN 1/45**
 Free-form descriptive text
 1. When N901 is code CJ or DX, use to identify the agency or purchasing activity issuing the clause cited in N902.
 2. When N901 is code ZZ, use to identify the source of the reference and use the following MSG segment for text, if necessary.

3. When N902 cites a FAR or other Progress Payment clause codified within 48 CFR and the Progress Payment rate is other than the customary rate, cite the words **PROGRESS PAYMENT RATE** and provide the rate in the following MSG segment.

4. Use of free-form text is discouraged if the information can be provided by some other means within the transaction set.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
369							

N904 **373** **Date** **O** **DT 6/6**
 Date (YYMMDD)
 Use to identify the date of the clause cited in N902. The DD (day) portion of the date is always 01.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
373							

Segment: **MSG** Message Text
Position: 300
Loop: N9
Level: Heading
Usage: Optional
Max Use: 1000
Purpose: To provide a free form format that would allow the transmission of text information.

Syntax Notes:

Semantic Notes:

Comments: 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.

Notes: 1. *Use this segment to carry the title or full text of any clause, a special instruction, or other information associated with the number cited in N902.*

2. *When N903 cites the words PROGRESS PAYMENT RATE, use this segment to identify the rate.*

3. *This segment is also used to carry clause fill-in information that is not provided elsewhere within the transaction set. Use of clause titles when providing fill-in information is recommended.*

4. *When providing fill-in information, the following format is recommended:*

a) In the first iteration of the segment, cite the clause title, and the clause Alternate identifier with date if applicable, followed by a pipe sign to indicate the end of the title information, then cite the number of fill-ins followed by a second pipe sign to indicate the end of the title segment.

b) For each fill-in, begin a new MSG segment using the sequence in which the fill-ins appear within the clause. These MSG segments may each begin with a number indicating the fill-in's sequence position. End each fill-in with a pipe sign. If multiple iterations of MSG are required for a long fill-in, end only the last MSG segment of that fill-in with the pipe sign.

5. *The purpose of the pipe sign (|) is to provide an indication to receiving applications that the data string related to a single entry has been completed.*

An example of a clause with 3 fill-ins follows:

*MSG*Commencement, Prosecution, and Completion of Work Alternate I (April 1984)|3|*

MSG*1. 30/
 MSG*2. 30 Sep 1995/
 MSG*3. 15 Jan 1995/

6. An example alternative format provides all fill-in information within the title MSG segment as follows:

*MSG*Commencement, Prosecution, and Completion of Work Alternate I (Apr 1984)/3/30/Sep 30, 1995/Jan 15, 1995/*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
MSG ²⁷							

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use	MSG01 933 Free-Form Message Text	M AN 1/264
	Free-form message text	
	<i>When citing a Progress Payment rate, the rate (percentage) shall be cited as a four position number with two decimal places. Cite 87 percent as 87.00, cite 87.5 percent as 87.50, cite 7.25 percent as 07.25.</i>	

- Segment:** **N1** Name
Position: 310
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 - 1 At least one of N102 or N103 is required.
 - 2 If either N103 or N104 is present, then the other is required.**Semantic Notes:**
Comments:
 - 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 - 2 N105 and N106 further define the type of entity in N101.**Notes:**
 1. Use this 1/N1/310 loop to identify organizations or locations that apply to all the line items. If the information varies by line item, use the 2/N1/350 loop.
 2. Whenever possible, identification and address information should be provided using N101, N103, and N104. Use N102 and segments N2 through N4, as applicable, when the address cannot be provided using one of the codes listed in N103.
 3. At least 2 iterations of this segment are *REQUIRED* using codes *BY* and *SE*.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
N1 ²⁸	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98 Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		28 Subcontractor	
		31 Postal Mailing Address	
		<i>Use only when an actual mailing address is required and it is different from the address provided for any other qualifier code. Do not use if another qualifier code can be used to pass this address. When used, cite the name of the party in N102 and the N2 segment, if necessary.</i>	

44	Data Processing Service Bureau <i>Use to indicate the Agency's Hazardous Material Information System (HMIS) central focal point to whom Material Safety Data Sheets are to be sent.</i>
54	Order Writer <i>Use to indicate activities authorized to place orders against award instruments, e.g., requirements, indefinite quantity, Blanket Purchase Agreements (BPAs), Basic Ordering Agreements (BOAs), etc.</i>
61	Performed At <i>Use to indicate additional places of performance, if applicable.</i>
7D	Contracting Officer Representative
7E	Party Authorized to Definitize Contract Action
7G	Hazardous Material Office <i>Use to indicate the installation Hazardous Material or Safety Office serving the ship-to location.</i>
7H	Government Furnished Property FOB Point
7M	Inspection and Acceptance Location <i>Use to indicate the inspection and acceptance point when both are at the same location but the location is neither at origin nor at destination.</i>
7N	Party to Receive Proposal <i>Use to indicate the office to receive a proposal for an undefinitized contract action.</i>
7P	Transportation Office
92	Support Party <i>Use to indicate a secondary Contract Administration Office.</i>
AE	Additional Delivery Address <i>Use to indicate a shipment in-place location.</i>
BT	Bill-to-Party <i>Use to indicate the party who will provide reimbursement for the payment of a contractor's invoice. This is an internal Government billed party and not the party the contractor bills. Use is discouraged. Use only when the contractor or other party receiving the order or a copy of the order, needs to receive this information.</i>
BY	Buying Party (Purchaser)

C4	Contract Administration Office
C9	Contract Holder <i>Use to indicate the party to whom a contract is awarded if other than the selling party, e.g., The Small Business Administration for a Section 8A award. The contract number awarded by the SBA is cited in BEG06.</i>
CY	Country <i>Use to indicate the country to which a Foreign Military Sale applies. Cite "FMS" in N102 and cite the applicable two position ISO 3166 country code in N404.</i>
DL	Dealer <i>Use to indicate a dealer or reseller of products.</i>
DS	Distributor <i>Use to indicate a distributor of products.</i>
DZ	Delivery Zone <ol style="list-style-type: none"><i>Use to indicate an area to which deliveries are expected to be made under a requirements or an indefinite delivery type award instrument. Specify the zone in N104 (e.g., 10, 11, 12, etc., must be a minimum of 2 positions) using code ZN in N103 and identify the states or countries that comprise the zone in N402 or N404. The zone number will be cited in CTP10 and the price associated with delivery to that zone will be specified in CTP03.</i><i>If the FOB point varies by delivery zone or by locations within a delivery zone, identify the FOB point in the 1/N4/340 segment.</i>
E5	Examiner <i>Use to indicate a Grant Investigator.</i>
FA	Facility <i>Use to indicate the principal place of performance when other than the address identified with code SE.</i>
IC	Intermediate Consignee <i>Use to indicate a freight forwarder.</i>
IS	Party to Receive Certified Inspection Report
KA	Item Manager <i>Use to indicate the Government inventory manager.</i>

KF	Audit Office
KG	Project Manager <i>Use to indicate the government party responsible for a project to include the advisor under a Grant.</i>
KX	Free on Board Point <i>Use to indicate the FOB point when it has to be described by a specific address rather than as a code value indicating either origin or destination. Applicable when FOB02 is code KE, KL, or ZZ.</i>
KY	Technical Office <i>Use to indicate the technical office that has cognizance over the technical portion of the order, if different than the office originating the order. Do not use unless it is intended for the contractor to deal directly with the cited party.</i>
KZ	Acceptance Location <i>Use to indicate acceptance is at other than origin or destination.</i>
L1	Inspection Location <i>Use to indicate the inspection location when it has to be described as an address.</i>
OI	Outside Inspection Agency <i>Use to indicate the inspection agency is other than the Contract Administration Office.</i>
PA	Party to Receive Inspection Report
PC	Party to Receive Cert. Of Conformance (C.A.A.)
PL	Party to Receive Purchase Order <i>Use to indicate entities other than the contractor that are to receive copies of the award instrument.</i>
PN	Party to Receive Shipping Notice
PO	Party to Receive Invoice for Goods or Services <i>Use to indicate where the invoice should be mailed.</i>
PR	Payer <i>Use to indicate the paying office.</i>
PW	Pick Up Address
R6	Requester <i>Use to indicate the requesting agency/activity.</i>

- RI Remit To
Use to indicate the place to send payment if it is different from the contractor's address, e.g., a bank, financial office location, etc.
- SE Selling Party
Use to indicate the party receiving the award. If the award is for a Section 8a contract, also use code C9 to identify the Small Business Administration (SBA).
- SM Party to Receive Shipping Manifest
- ST Ship To
If the address is an FPO or APO, use the appropriate code in N101, cite FPO or APO in N102, cite the zip code in N403, cite code AR in N405, and cite the two letter identifier (AA for Miami, AE for New York, AP for San Francisco) in N406.
- SV Service Performance Site
Use to indicate the location where a service, e.g., grass cutting, is to be performed or where service for a product can be obtained.
- TQ Third Party Reviewing Organization (TPO)
Use to indicate the office for receipt of foreign disclosure sensitive information per DoD Directive 5230.25.
- TS Party to Receive Certified Test Results
- X2 Party to Perform Packaging
- Z7 Mark-for Party
- ZD Party to Receive Reports

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
BY ²⁹	M	M	M	M	M	M	M
E ³⁰							
PO ³¹							
PR ³²							
SE ³³	M	M	M	M	M	M	M

N102 **93** **Name** **X** **AN 1/35**
 Free-form name

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
93	A	A	A	A	A	A	A

N103 **66** **Identification Code Qualifier** **X** **ID 1/2**
 Code designating the system/method of code structure used for Identification Code (67)

While the Federal Electronic Data Interchange (EDI) program uses the Data Universal Numbering System (DUNS) number, other Government users of this implementation convention may require the use of other and additional numbers for a transition period in order to cross reference existing data bases to new procurement actions.

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS or DUNS+4 number is preferred over other codes to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS or DUNS+4 number is preferred over other codes to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use to indicate a Department of Defense or Civilian Agency Activity Address Code.
- 33 Commercial and Government Entity (CAGE)
- A2 Military Assistance Program Address Code (MAPAC)
- ZN Zone
When N101 is code DZ, use to indicate a delivery zone.

CODE ³⁴	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
1	M	M	M	M	M	M	M
9	A	A	A	A	A	A	A

N104 67 Identification Code X AN 2/20

Code identifying a party or other code
When N103 is code ZN, cite one of the following:

- a. *A delivery zone designation, e.g., 01, 10, 1a, etc.*
- b. *The word "CONUS" to specify all points within the continental United States that are not otherwise identified within a zone.*
- c. *The word "WORLD" to specify all points outside the continental United States that are not otherwise identified within a zone.*

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
67	A	A	A	A	A	A	A

Segment: **N2 Additional Name Information**
Position: 320
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
N2 ³⁵	A	A	A	A	A	A	A

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Must Use	N201	93 Name Free-form name	M AN 1/35
	N202	93 Name Free-form name	O AN 1/35

Segment: **N3** Address Information
Position: 330
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
N3 ³⁶	A	A	A	A	A	A	A

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
Must Use	N301	166	Address Information Address information	M AN 1/35
	N302	166	Address Information Address information	O AN 1/35

- Segment:** **N4 Geographic Location**
Position: 340
Loop: N1
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the USA or Canada.
Notes: 1. *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104.*
 2. *When N101 is code DZ and N104 does not cite the words "CONUS" or "WORLD", this segment may be used to identify locations within a delivery zone and the FOB point if it varies by delivery zone or locations within a delivery zone.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
N4 ³⁷	A	A	A	A	A	A	A

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element Name</u>	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/11
N404	26 Country Code Code identifying the country <i>Cite the two position ISO 3166 country code.</i>	O ID 2/3
N405	309 Location Qualifier Code identifying type of location 1. <i>When N101 is code DZ and the 1/FOB/080 segment is not used to identify the FOB point, use to specify the FOB point for a delivery zone or for a location within a zone.</i>	X ID 1/2

2. When N101 is code ST, use to specify an APO or FPO location, if applicable.

- AR Armed Services Location Designation
Use to indicate an Army Post Office (APO) or Fleet Post Office (FPO).
- DE Destination (Shipping)
- OR Origin (Shipping Point)

- ZN Zone Code
When it is necessary to associate the entity identified in N101 with a delivery zone, use this code in conjunction with an appropriate N101 code (eg, DL, DS, SV, etc).
- ZZ Mutually Defined
Use to indicate an FOB point other than origin or destination. Identify the FOB point in N406.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
309	N/U	N/U	N/U	N/U	N/U	N/U	N/U

N406 310 Location Identifier O AN 1/30

Code which identifies a specific location

1. When N405 is code AR, cite the two letter APO or FPO identifier (AA for Miami, AE for New York, AP for San Francisco).

2. When N405 is code ZZ, use to identify the location of the other FOB point. Cite the 5 position United Nations code for ports and other locations (UN/LOCODE) in accordance with the United Nations Location Code Manual.

3. When N405 is code ZN, use to identify a delivery zone associated with the entity identified in N101. Identify the delivery zone using the same zone number or keyword specified in establishing the zone.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
310	N/U	N/U	N/U	N/U	N/U	N/U	N/U

Segment: **REF** Reference Numbers
Position: 350
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: 1. Use this segment to identify reference numbers applicable to a ship-to location, i.e., when N101 is code ST. The number cited can be a reference number or code used in place of financial accounting data, e.g., an ACRN, fund code, etc.; a transportation control number; a GBL number; a requisition number; or the financial accounting number.
 2. Use also to identify major subdivisions and lower levels within the selling party's organization and also to provide a special price authorization number, if applicable.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
REF ³⁸	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use REF01	128 Reference Number Qualifier	M ID 2/2
	Code qualifying the Reference Number.	
	10 Account Managers Code	
	<i>Use to indicate an accounting code.</i>	
	19 Division Identifier	
	<i>Use to indicate the major subdivision name of the organization identified in N101. For example, School of Engineering or Adhesive Products Division. Cite the name in REF03.</i>	
	1Z Financial Detail Code	
	9B Repriced Line Item Reference Number	
	<i>1. Use to indicate a special price authorization number.</i>	
	<i>2. When used, code 1A should be used in PER01 in the 1/PER/360 segment and code SPC should be used in CTP02 in the 2/CTP/040 segment within the PO1 loop of the line items that are authorized a special price.</i>	

- AT Appropriation Number
When used, cite the number in REF03.
- AX Government Accounting Class Reference Number (ACRN)
- BL Government Bill of Lading
- DP Department Number
Use to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the organization. For example, Department of Industrial Engineering or Sales Department. Cite the name in REF03.
- FU Fund Code
- IL Internal Order Number
Use to indicate the requisition number (MILSTRIP/FEDSTRIP document) number.
- P4 Project Code
- TG Transportation Control Number (TCN)
- TH Transportation Account Code (TAC)

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
19	A	A	A	A	A	A	A
DP	A	A	A	A	A	A	A

REF02 127 Reference Number X AN 1/30
Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
127	A	A	A	A	A	A	A

REF03 352 Description X AN 1/80
A free-form description to clarify the related data elements and their content
When REF01 is code AT, use to identify the appropriation number.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
352	A	A	A	A	A	A	A

Segment: **PER Administrative Communications Contact**
Position: 360
Loop: N1
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *Use this segment to provide communications contacts associated with the entities cited in the same N1 loop.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
PER ³⁹	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element Name</u>	<u>Attributes</u>
Must Use	PER01	M ID 2/2
	366	Contact Function Code
		Code identifying the major duty or responsibility of the person or group named
		<i>Use to identify the various individuals who can be contacted regarding specific areas of this award instrument.</i>
	1A	Review/Repricing Contact
		<ol style="list-style-type: none"> 1. <i>When N101 is code SE, use to indicate an individual who authorized a one time special price for line items in this award instrument, e.g., a spot pricing reduction from an existing contract or catalog price. In this instance, PER02 MUST be used.</i> 2. <i>When used, cite a special price authorization number in the 1/REF/350 segment citing code 9B in REF01 and use the 2/CTP/040 segment in the PO1 loop of the line items authorized the special price citing code SPC in CTP02.</i>
	AC	Administrative Contracting Officer
		<i>Use in conjunction with N101 code C4.</i>
	AT	Material Safety Data Sheet Contact

AV	<p>Use in conjunction with N101 code 44. Advisor Use in conjunction with N101 code KG to indicate the Government party who will work with the contractor on basic R&D efforts in a particular science area.</p>
BD	<p>Buyer Name or Department 1. Includes Grants Management Specialists.</p>
CD	<p>2. Use in conjunction with N101 code BY Contract Contact Use in conjunction with N101 code 7D to indicate a Contracting Officer's Representative.</p>
CN	<p>General Contact When N101 is code ST, use to indicate the accepting official at destination.</p>
HM	<p>Hazardous Material Contact Use in conjunction with N101 code 7G.</p>
IC	<p>Information Contact Use in conjunction with an applicable N101 code to indicate an information point of contact when no other code applies.</p>
NT	<p>Notification Contact When N101 is code ST and LDT01 in the 1/LDT/160 segment cites code AI, use to indicate the party to be contacted for shipping instructions.</p>
PC	<p>Purchasing Contracting Officer (PCO) 1. Includes Grants/Contract Project Officer.</p>
PP	<p>2. Use in conjunction with N101 code BY. Program Manager 1. Includes Grants Project Officer</p>
QR	<p>2. Use in conjunction with N101 code KG Ordering Officer When N101 is code 54, use to indicate persons within an activity authorized to place orders against award instruments.</p>
RE	<p>Receiving Contact When N101 is code ST and LDT01 in the 1/LDT/160 segment cites code AI, use to indicate the party to be contacted for to schedule a shipment.</p>
SI	<p>Investigator</p>

Use in conjunction with N101 code SE to indicate the party designated as the principal investigator within the selling party's organization.

SU

Supplier Contact

Use in conjunction with N101 code SE to indicate a contact within the selling party's organization.

TA

Traffic Administrator

Use in conjunction with N101 code 7P to indicate a transportation officer, i.e., the party who can be contacted for a bill of lading or transportation information.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AV ⁴⁰							
BD ⁴¹							
IC ⁴²							
PP ⁴³							
SI ⁴⁴							

PER02

93

Name

O AN 1/35

Free-form name

Use to identify the name of a point of contact. Last name, followed by first name, is preferred. If the whole name is longer than 35 characters, the use of initials for the first name is recommended. PER09 may be used to cite the party's title.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
93	A	A	A	A	A	A	A

PER03

365

Communication Number Qualifier

X ID 2/2

Code identifying the type of communication number

AU Defense Switched Network

EM Electronic Mail

FX Facsimile

IT International Telephone

Include the country code.

TE Telephone

Use to indicate the commercial telephone number of the individual cited in PER02. Include the area code.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AU							
EM							
FX							
TE							

PER04 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable
All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
364	A	A	A	A	A	A	A

PER05 365 Communication Number Qualifier X ID 2/2
 Code identifying the type of communication number
Use to identify a second communications number for the party cited in PER02. For example, if PER03/04 cites a telephone number, PER05/06 can be used to cite a FAX number.

AU Defense Switched Network
 EM Electronic Mail
 EX Telephone Extension
Use only if PER03 is used citing either code AU or TE.

FX Facsimile
 IT International Telephone
Include the country code.

TE Telephone
Use to indicate the commercial telephone number of the individual cited in PER02. Include the area code.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AU							
EM							
FX							
TE							

PER06 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable
All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
364	A	A	A	A	A	A	A

PER07 365 Communication Number Qualifier X ID 2/2
 Code identifying the type of communication number
Use to indicate a third communications number for the party cited in PER02.

- AU Defense Switched Network
- EM Electronic Mail
- EX Telephone Extension
Use only if PER05 is used citing either AU or TE.
- FX Facsimile
- IT International Telephone
Include country code.
- TE Telephone
Used to indicate the commercial telephone number of the individual cited in PER02. Include the area code.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AU							
EM							
FX							
TE							

PER08 364 Communication Number X AN 1/80
 Complete communications number including country or area code when applicable
All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
364	A	A	A	A	A	A	A

PER09 443 Contact Inquiry Reference O AN 1/20

Additional reference number or description to clarify a contact number

Use, if necessary, to provide the title of the party cited in PER02.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
443 ⁴⁵	A	A	A	A	A	A	A

Segment: **LM** Code Source Information
Position: 430
Loop: LM
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit standard code list identification information
Syntax Notes:
Semantic Notes:
Comments: 1 LM02 identifies the applicable industry code list source information.
Notes: Use this loop to provide data that cannot be provided by other means within this transaction set, e.g., field contract administration office data.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
LM ⁴⁶	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use	LM01 559 Agency Qualifier Code	M ID 2/2
	Code identifying the agency assigning the code values <i>Use any code other than code ZZ. Use code DF to indicate the Department of Defense in preference to code DD.</i> Refer to 003050 Data Element Dictionary for acceptable code values.	

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
559	A	A	A	A	A	A	A

LM02 **822** **Source Subqualifier** **O AN 1/15**
 A reference that indicates the table or text maintained by the Source Qualifier
When LQ01 is code ZZ, identify the code list that contains the code cited in LQ02.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
822	A	A	A	A	A	A	A

Segment: **LQ** Industry Code
Position: 440
Loop: LM
Level: Heading
Usage: Mandatory
Max Use: >1
Purpose: Code to transmit standard industry codes
Syntax Notes: 1 If LQ01 is present, then LQ02 is required.
Semantic Notes:
Comments:

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
LQ	A	A	A	A	A	A	A

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LQ01	1270	Code List Qualifier Code Code identifying a specific industry code list	O ID 1/3
		2 Type of Business Code <i>Use to indicate the contractor's type of business classification, e.g., small disadvantaged business, hospital, etc.</i>	
		6 Special Contract Provision Code <i>Use to indicate special clauses that apply to the award instrument.</i>	
		7 Quality Assurance Site Code <i>Use to indicate the inspection point.</i>	
		9 Indicator Code <i>Use to indicate specific conditions that apply to the award instrument.</i>	
		A9 Supplementary Address	
		ZZ Mutually Defined <i>Use to indicate that a code list is identified in LM02.</i>	

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
9	A	A	A	A	A	A	A

LQ02 **1271** **Industry Code** **X AN 1/20**
Code indicating a code from a specific industry code list
1. Use to cite a code from the code list identified by the qualifier in LQ01.
2. When LQ01 is code ZZ, use to cite a code from the code list identified in LM02.

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
	A	A	A	A	A	A	A

Segment: **PO1** Baseline Item Data
Position: 010
Loop: PO1
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used line item data
Syntax Notes:

- 1 If PO103 is present, then PO102 is required.
- 2 If PO105 is present, then PO104 is required.
- 3 If either PO106 or PO107 is present, then the other is required.
- 4 If either PO108 or PO109 is present, then the other is required.
- 5 If either PO110 or PO111 is present, then the other is required.
- 6 If either PO112 or PO113 is present, then the other is required.
- 7 If either PO114 or PO115 is present, then the other is required.
- 8 If either PO116 or PO117 is present, then the other is required.
- 9 If either PO118 or PO119 is present, then the other is required.
- 10 If either PO120 or PO121 is present, then the other is required.
- 11 If either PO122 or PO123 is present, then the other is required.
- 12 If either PO124 or PO125 is present, then the other is required.

Semantic Notes:

Comments:

- 1 See the Data Dictionary for a complete list of ID's.
- 2 PO101 is the line item identification.
- 3 PO106 through PO125 provide for ten (10) different product/service ID's per each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Notes: 1. Use this PO1 loop to identify all information applicable to the line item or service being awarded.

2. In those rare instances where Table 2 information is not required, e.g., if an Agreement has no detail information, only PO101 is required to be transmitted. In that instance, cite the word "NONE" in PO101.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
PO1 ⁴⁷	M	M	M	M	M	M	M

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element Name</u>	
PO101	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/11

1. Use to identify the Contract Line Item Number (CLIN), the Sub Contract Line Item Number (SUBCLIN), or the Exhibit Line Item Number (ELIN), if one is assigned.

2. If Table 2 data is not required, Cite the word "NONE".

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
350	M	M	M	M	M	M	M

PO102 330 Quantity Ordered X R 1/9
Quantity ordered

1. Use to specify the quantity applicable to the line item. Step ladder quantities applicable to requirements or indefinite quantity award instruments and the related prices are carried in the 2/CTP/040 segment.
2. Do not use this data element at the CLIN level if quantities are specified at the SUBCLIN level.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
330	N/U	N/U	N/U	N/U	N/U	N/U	N/U

PO103 355 Unit or Basis for Measurement Code O ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

1. Use any code.
2. Do not use this data element at the CLIN level if quantities are specified at the SUBCLIN level.
3. An application program conversion table may be required to convert agency codes to ASC X12 codes.

SX Shipment

Use when PO101 is a CLIN for transportation charges.

ZZ Mutually Defined

Use to indicate a Job or a Task.

Refer to 003050 Data Element Dictionary for acceptable code values.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
355	N/U	N/U	N/U	N/U	N/U	N/U	N/U

- PO104 212 Unit Price** **X R 1/17**
- Price per unit of product, service, commodity, etc.
1. *When PO105 is either code NC, NS, or TB, enter the number 0.*
 2. *For IDC and similar award instruments, the unit price shall be based on standard commercial packaging and preservation. Use the 2/CTP/040 to identify prices for additional levels of packaging and preservation.*
 3. *For IDC and similar award instruments that include zone pricing, this data element shall not be used. The unit price applicable to the individual zone shall be cited in the CTP segment.*

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
212	N/U	N/U	N/U	N/U	N/U	N/U	N/U

- PO105 639 Basis of Unit Price Code** **O ID 2/2**
- Code identifying the type of unit price for an item
- ES Estimated
 - FB Fabrication Cost
Use to indicate the price includes the incorporation of Government Furnished Property (GFP) into the item.
 - KA Price with Government Furnished Property
Use to indicate that the price of the item includes the use of GFP, e.g., special tooling, special test equipment, production machinery, etc., to manufacture the item.
 - NC No Charge
 - NE Not to Exceed
 - NS Not Separately Priced
Use to indicate the item is not separately priced but is included in the price of the item to which it pertains.
 - TB To be negotiated.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
639	N/U	N/U	N/U	N/U	N/U	N/U	N/U

- PO106 235 Product/Service ID Qualifier** **X ID 2/2**
- Code identifying the type/source of the descriptive number used in Product/Service ID (234)

1. *PO106 through PO125 are used in pairs, e.g., PO106 contains a qualifier code and PO107 contains data related to the code.*
2. *Any code, other than code ZZ, can be used, but the listed codes are preferred.*

A8 Exhibit Line Item Number

AK Refined Product Code

CG Commodity Grouping

Use to indicate a commodity code, e.g., the 2 position Federal Supply Group code.

CH Country of Origin Code

When used, cite the two position ISO 3166 country code in the following 234 data element.

CL Color

EF Exhibit Identifier

Use to indicate the letter assigned to an exhibit.

F1 Catalog Number

Use to indicate a catalog number that identifies the product.

F7 End-Item Description

Use to indicate the end item to which the ordered item applies.

F8 Next Higher Used Assembly

Use to indicate the next higher assembly to which the ordered item applies.

FS National Stock Number

The NSN shall be transmitted without dashes.

FT Federal Supply Classification

Use to indicate the 4 position Federal Supply Classification code or Product Service code

IN Buyer's Item Number

Use to indicate a locally assigned code for a product or service whenever stock number does not apply.

KA Engineering Data List

Use to indicate the Engineering Data List that contains technical information related to the CLIN or SUBCLIN.

KB Data Category Code

When PO101 is a CLIN or SUBCLIN related to an exhibit, use to indicate the data category of a Contract Data Requirements List.

KD Replacement National Stock Number

KF Item Type Number

KG Time Compliant Technical Order

KI Cognizance Symbol

KJ Material Control Code

KK Special Material Identification Code

KL Item Management Code

KM Shelf-Life Code

KN Shelf-Life Action Code

LT Lot Number

MF Manufacturer

When used, cite the DUNS number of the manufacturer in the following data element.

MG Manufacturer's Part Number

When used, a second 235/234 pair must be used citing either code MF or ZB.

MN Model Number

N1 National Drug Code in 4-4-2 Format

N2 National Drug Code in 5-3-2 Format

N3 National Drug Code in 5-4-1 Format

N4 National Drug Code in 5-4-2- Format

ND National Drug Code (NDC)

PD Part Number Description

Use to indicate the noun nomenclature of the item.

PU Part Reference Number

Use to indicate a part number assigned by an industry (not related to a specific manufacturer). Do not use for National Drug Codes.

RC Returnable Container No.

Use to indicate an NSN, manufacturer's part number, or other identifying number (except a serial number) of a returnable container. The serial number of a returnable container will be carried in the REF segment with code RS.

SN Serial Number

Use to indicate the serial number of the item cited in PO101. For example, the serial number of an aircraft engine that is to be repaired.

SV Service Rendered

Use to indicate (in text) the service being ordered.

SW Stock Number

Use to indicate a local stock number.

SZ Vendor Alphanumeric Size Code (NRMA)

Use to indicate the size of an item being ordered.

UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)

VP Vendor's (Seller's) Part Number

Use to indicate a part number assigned by a contractor other than a manufacturer.

ZB Commercial and Government Entity (CAGE) Code

Use to indicate a manufacturer who can be identified by a CAGE code.

Refer to 003050 Data Element Dictionary for acceptable code values.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
235	N/U	N/U	N/U	N/U	N/U	N/U	N/U
234	N/U	N/U	N/U	N/U	N/U	N/U	N/U

PO107	234	Product/Service ID	X	AN 1/40	Identifying number for a product or service
PO108	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.
PO109	234	Product/Service ID	X	AN 1/40	Identifying number for a product or service
PO110	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.

PO111	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO112	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO113	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO114	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO115	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO116	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO117	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO118	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO119	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO120	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2

PO121	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO122	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO123	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
PO124	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003050 Data Element Dictionary for acceptable code values.	X	ID 2/2
PO125	234	Product/Service ID Identifying number for a product or service	X	AN 1/40

Segment: **CTT Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
CTT ⁴⁸	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	Number of Line Items Total number of line items in the transaction set <i>Use to identify the total number of PO1 segments contained in this transaction set.</i>
			M N0 1/6

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
354	M	M	M	M	M	M	M

CTT02 347 Hash Total O R 1/10
 Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. -----
 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

Use to identify the sum of the quantities (PO102) for all PO1 segments.

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
347	N/U	N/U	N/U	N/U	N/U	N/U	N/U

Segment: **AMT** Monetary Amount
Position: 020
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: *Use this segment to specify the total value of the award instrument.*

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
AMT ⁴⁹	A	A	A	A	A	A	A

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/2
			Code to qualify amount	
		29	Estimated Price	
			<i>Use to indicate the total award instrument price is an estimate.</i>	
		30	Contract Ceiling	
			<i>Use to indicate the contract ceiling price for fixed-price contracts with retroactive price redetermination.</i>	
		KD	Undefinitized	
			<i>Use to indicate an undefinitized amount.</i>	
		TT	Total Transaction Amount	
			<i>Use to indicate the total value of the award instrument when it is not an estimate.</i>	
		TY	Total at Complete	
			<i>Use to indicate the total value of the award instrument when it is incrementally funded. For grants, include the total amount committed for the entire project period.</i>	

CODE	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
TY	A	A	A	A	A	A	A

Must Use **AMT02** **782** **Monetary Amount** **M R 1/15**
 Monetary amount

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
782	N/U	N/U	N/U	N/U	N/U	N/U	N/U

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

SEGMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
SE ⁵⁰	M	M	M	M	M	M	M

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
96	M	M	M	M	M	M	M

Must Use SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		<i>Enter the same number as the one carried in ST02.</i>	

DATA ELEMENT	DOE	NIH	NSF	USDA	ARO	ONR	AFOSR
329 ⁵¹	M	M	M	M	M	M	M

IC Endnotes

- ¹ The ST segment must be used to identify the transaction set and the transaction control number.
- ² The BEG segment must be used in every transaction. Data elements used depend on the type of grants.
- ³ Used to identify the purpose of the transaction. Code 00 will be the most used code. Agencies should identify which other codes they may require.
- ⁴ Must use to identify the type of grant award.
- ⁵ Must use to indicate the grant award number.
- ⁶ Must use to indicate the date of the award.
- ⁷ Used to identify that acknowledgment of the grant. Does not indicate acceptance.
- ⁸ Identifies different types of cost arrangements.
- ⁹ Identifies a category of grant. Additional types may be added at a later date.
- ¹⁰ Identifies the CFDA number.
- ¹¹ Identifies the procurement priority code
- ¹² Identifies the agency proposal number.
- ¹³ Identifies the awardee's assigned proposal number. Used for internal tracking.
- ¹⁴ Identifies the effective or preaward effective date of the award.
- ¹⁵ Identifies the final expiration date of the grant. (i.e. multiyear grants)
- ¹⁶ Identifies the effective date of current funding period if different from code 007.
- ¹⁷ Identifies the expiration date of the current funding period if different from code 093.
- ¹⁸ Must use to identify the title of the grant. N901 code 4W has been requested to be added to the 850.
- ¹⁹ Indicates the government's cost share in cost share grants.
- ²⁰ Indicates the current funding amount under this grant award.
- ²¹ Indicates the awardee's cost share in cost share grants.
- ²² May be used to indicate a pre-award authorized amount.
- ²³ Indicates the actual dollar amount of the code in AMT01.

- ²⁴ Indicates the expenditure or long line accounting data.
- ²⁵ Identifies numbers or codes applicable to the financial accounting data in AT and AMT.
- ²⁶ Identifies references applicable to the grant award that are not codified in the LM/LQ segments.
- ²⁷ Use in conjunction with N9. Usage is as indicated in the IC.
- ²⁸ Must use this segment to, at a minimum, identify the awarding agency and the awardee.
- ²⁹ Must use to indicate the awarding agency.
- ³⁰ Use to identify the PI and the co-PI. (Note: Co-PI name is in PER)
- ³¹ Indicates the office to be invoiced.
- ³² Indicates the paying office.
- ³³ Indicate the awardee of the grant.
- ³⁴ Use of DUNS or DUNS+4 is desired.
- ³⁵ Use only if DUNS cannot fully identify the N101 code cited or the N102 name exceeds 35 characters.
- ³⁶ Use only if DUNS cannot fully identify the N101 code cited.
- ³⁷ Use only if DUNS cannot fully identify the N101 code cited.
- ³⁸ Use to identify the department or division identified in N1.
- ³⁹ Use for communication numbers of the N101 code.
- ⁴⁰ Indicates the technical/science officer at the agency.
- ⁴¹ Indicate the awarding office contact.
- ⁴² Indicates a contact at the awardee organization.
- ⁴³ Indicates the program manager or grants management officer at the awarding agency.
- ⁴⁴ Indicates a PI or co-PI contact. If its the co-PI, put name in PER03 and title in PER09. If PI, proved contact info (Name is in N102).
- ⁴⁵ Identifies the title PER01 cited code. Must use when identifying the co-PI.
- ⁴⁶ Codes to be determined. This is when most of the special terms and conditions for the award will be identified.
- ⁴⁷ Table 2 will not be used. PO101 is only used to satisfy X12 syntax.
- ⁴⁸ Must use for X12 syntax. Enter "1" in CTT01.

⁴⁹ Identifies the total amount of the award.

⁵⁰ Must use to indicate the total number of segments sent.

⁵¹ Repeat the same number as in ST01.

End of IC Endnotes

SAMPLE 850 EDI TRANSMISSION

The table that follows illustrates a sample EDI transmission for a grant award based on the federally approved 850 Purchase Order IC.

- ◆ **Position**—identifies the transaction set table number/segment tag/transaction set table position (e.g., 1/ST/010 indicates the ST segment in Table 1 at position 010).
- ◆ **Loop**—indicates whether the segment is beginning a loop and at what loop level. Note: The entire row is shaded if the segment begins a loop. Only the first cell of the row is lightly shaded if the segment is beginning a nested loop.
- ◆ **ASC X12 EDI Transmission Format**—identifies the actual EDI transmission format for that particular segment occurrence. (Note: *s are being used to represent delimiters and @s are being used as segment terminators).
- ◆ **Definition**—provides a textual description of what information is being transmitted.

Position	Loop	ASC X12 EDI Transmission Format	Definition
TABLE 1			
1/ST/010		ST*850*0001@	This is an grant award notice transaction set (850) bearing a transaction set control number of 0001.
1/BEG/020		BEG*00*KG*N000149810289**970930****CH*RD@	This is an original submission (00) of an 850 transaction set. The grant (KG) award number is N000149810289 dated September 30, 1997. The award is a cost sharing (CH), research (RD) grant.
1/REF/050		REF*2S*12.300@	The CFDA number (2S) for this grant is 12.300.
1/REF/050		REF*P4*2333@	The agency proposal number (P4) was 2333.
1/REF/050		REF*PR*NCS34@	The institution assigned number (PR) is NCS34.
1/REF/050		REF*DS*00A1@	The procurement priority code (DS) is 00A1.
1/DTM/150		DTM*007*970930@	The effective date of this grant (007) is September 30, 1997. In this example, the same as the award date.
1/DTM/150		DTM*093*990130@	The final expiration date of this grant (093) is January 30, 1999.
1/DTM/150		DTM*193*970930@	The effective date of the current funding period (193) is September 30, 1997.
1/DTM/150		DTM*194*980928@	The expiration date of the current funding period (194) is September 29, 1998.
1/PID/190		PID*F****Applied Research@	The title of the grant (Applied Research) is in free-form text (F).
1/AMT/287	AMT-1	AMT*KC*108524@	The current funding period amount is \$108,524.
1/AT/288		AT**1797981319W1AE*****068342**410RA3330068342@	The agency expenditure or appropriations number.
1/REF/289		REF*AX*AD@	The previous number is the AD Government Accounting Class Reference Number (AX).
1/AMT/287	AMT-1	AMT*70*11476@	The agency's cost share (70) was \$11,476.
1/N1/310	N1-1	N1*SE**1*947368379@	The awardee/sponsor institution (SE) is identified by its DUNS number (1) of 947368379.
1/PER/360		PER*IC*Smith,Jack*TE*7037666462****Research Administrator@	The contact (IC) at the institution is Jack Smith. His telephone number (TE) is (703)766-6462. His title is Research Administrator.

850 Purchase Order (Award) Implementation Convention

Position	Loop	ASC X12 EDI Transmission Format	Definition
1/N1/310	N1-1	N1*E5*James, Ray*1*947368379@	The principal investigator (E5) is Ray James identified by institutional DUNS (1).
1/N2/320		N2@	If name of the PI was longer than 35 characters it would be carried in the N2.
1/N3/330		N3*14 North Street@	The PI's street address.
1/N4/340		N4*Winston*NC*524301@	The remainder of the PI's address.
1/REF/350		REF*DP**Department of Applied Sciences@	The PI's department (DP) is the Department of Applied Sciences.
1/PER/360		PER*SI**TE*7036965454@	The PI's telephone number (TE).
1/N1/310	N1-1	N1*E5**1*888777666@	Another institutional DUNS number related to the PI. (In this case, it will be the DUNS of the co-PI, who will be identified in the following PER segment.
1/PER/360		PER*SI*Kim, Joe*TE*8073332222 *****Co-PI@	This person (SI), Joe Kim is the co-PI. His telephone number (TE) is (807)333-2222. His title is Co-PI.
1/N1/310	N1-1	N1*BY**1*008963233@	The awarding agency (BY) is identified by its DUNS number (1).
1/PER/360		PER*BD**TE*6106964145@	The agency grants management specialist's (BD) telephone number (TE) is (601) 696-4145.
1/PER/360		PER*AV*Mills, Art*TE*6106966444* FX*6106964446***Technical Officer @	The agency advisor (AV), Art Mills, is the technical officer and has the indicated telephone (TE) and fax (FX) numbers.
1/N1/310	N1-1	N1*PR*1*008963244@	The party to be invoiced is identified by its DUNS (1).
1/N1/310	N1-1	N1*PO*1*008963246@	The agency paying office (PO) is identified by a DUNS (1).
			<i>Note: Award terms and conditions will be carried by coded means. A coded list is being developed.</i>
1/LM/430	LM-1	LM*AS*R1@	For this example, R1 indicates a code list of Reports.
1/LQ/440		LQ*ZZ*7@	Code ZZ indicates that a code list is identified in LM02. Code 7 indicates a code on that list (R1). In this case, a Progress report is required.
TABLE 2			
2/PO1/010	PO1-1	PO1*NONE@	The PO1 is only used to satisfy X12 syntax. In contract awards, this is where a CLIN would be identified.
TABLE 3			
3/CTT/010		CTT*1@	There is 1 PO1 segment.

Position	Loop	ASC X12 EDI Transmission Format	Definition
3/AMT/020		AMT*TY*250000@	The total amount committed for the entire project period (TY) is \$250,0000.
3/SE/030		SE*36*0001@	There are 36 segments in this transaction number 0001.

